64090 INDIAN BLUFF Determination of Public Land (Rangeland) Health for

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for the implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these standards.

Field assessment worksheets and other available data that evaluate the local indicators were completed for this allotment. The evaluation of the Biotic standard for most of the sites evaluated shared a common theme. At this time forbs constitute the bulk of the dietary constituents available for wild ungulates. The lack of sufficient quantity and quality of browse species as the preferred source of nutrition for mule deer restricts this allotment's potential for this species. Also, the woven wire fences in the allotment restrict gene flow between pronghorn populations residing in adjacent pastures. While evidence of reproduction of mule deer and pronghorn have been observed, it is not known at what rate or if those young will be recruited into the adult populations. These conditions originate from the historical use of the area but could be improved through the modification of current management practices.

Based on the assessments, it is my determination that public land within Indian Bluff allotment #64090 meets the Upland Sites standard and (2) Biotic Communities, including Native, Threatened, Endangered, and Special Status Species standard but not at the desired level. There are no public land riparian areas on this allotment, therefore this standard will not be addressed.

/s/ T. R. Kreager Assistant Field Manager 09/28/2005

Date

Standards of Public Land Health Evaluation of 64090 INDIAN BLUFF Allotment [08/09/2005]

The Roswell Field Office conducted rangeland health assessments at 17 study sites within the Indian Bluff allotment 64090. The assessments looked at the Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of each study site. Existing monitoring data was incorporated into and in support of the field assessment. The summary of each assessment is attached and shown in the following table.

Study Area		UPLAND			BIOTIC		F	RIPARIAN			
or Assessment Area	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet		
64090-#2-F225	X			X	*		N/A				
64090- ANTELOPE- F226	X			X			N/A				
64090-CEDAR- F231	X			X	*		N/A				
64090- CROOKED CREEK-F237 (*)	X			X			N/A				
64090-DARK CANYON-F233	X			X			N/A				
64090-E SAMPSON- F223	X			X			N/A				
64090-E TWIN BUTTE-F229 (*)	X			X			N/A				
64090-EAST TURNER-F232	X			X			N/A				
64090-FELIX- F239	X			X			N/A				
64090- HORSESHOE- F234 (*)	X			X			N/A				
64090-INDIAN	X			X			N/A				

BLUFF-F238 (*)						
64090-N WELL-CAMP- F227 (*)	X		X	*	N/A	
64090-S WELL CAMP-F228 (*)	X		X	*	N/A	
64090- SIXTEEN-F235 (*)	X		X		N/A	
64090-SOUTH TURNER-F236	X		X	*	N/A	
64090-W SAMPSON- F224	X		X		N/A	
64090-W TWIN BUTTE-F230	X		X		N/A	

Twenty-two (22) indicators for Rangeland Health were evaluated for public land on Indian Bluff, allotment #64090. Ten (10) of these assessed soil site stability, 11 hydrologic function and 13 biotic integrity. These qualitative assessments in conjunction with previous long-term quantitative data gathered on 17 range trend plot/study site locations were utilized to determine rangeland health of public land within this allotment. These data collections which were initiated in the late 1970's/early 1980's are scheduled and performed by the Roswell Field Office every 5 years and include some or all of the following: ground and vegetative cover and composition, production, frequency, occurrence and ecological condition.

This allotment is recovering from the dry conditions occurring over the last several years. Both sheep and cattle graze the pastures with net wire and smooth fencing respectively. Eight sites are CP-4 Very Shallow, two CP-4 Limestone Hills, four SD-3 Shallow and three SD-3 Loamy ecological sites. Antelope, West Sampson, Dark Canyon, Horseshoe, E. Twin Butte, East Turner, North and South Well Camp Pastures are CP-4 Very Shallow ecological sites on an Ector-Rock, outcrop complex with 0-9 percent slopes. The nearly level to gently rolling Ector soil and Rock outcrop occurs on limestone hills in the western and southwestern part of the survey area. Elevation ranges from 4,000 ft/1,212 m to 5,800 ft/1,758 m.

1. Antelope Pasture partially on private land is currently grazed by sheep with pronghorn (Antilocapra americana) and mule deer (Odocoileus hemionus) observed inhabiting the site covering 2,053 acres/831 hectares. A majority of indicators assessed rated None to Slight and Slight to Moderate. Small and cobble-size rock makes up the majority of ground cover with litter and vegetation accounting for the remainder. Annual production rates Moderate and is slightly higher than the long-term average but below (ESD)-

Ecological Site Description parameters estimated at 375 lbs/ac or kg/ha. Considering the amount of rock cover, litter was estimated well above the range expected at 20 percent. Prickly pear (Opuntia spp.) and snakeweed (Gutierrezia sarothrae) are scattered rating invasive plants Moderate. Skunkbush (Rhus microphylla), catclaw (Acacia spp.), range ratany (Krameria parvifolia), yucca (Yucca spp.), beargrass (Nolina microcarpa), mariola (Parthenium incanum) and desert agave (Agave deserti) make up the majority of shrubs both in draw and upland portions. Tridens (Tridens spp.) and black grama (Bouteloua eriopoda) are grass species encountered in small quantities. All other indicators assessed fall within normal range of variability.

- 2. East Twin Butte Pasture, in a state section is 1,813 acres/734 hectares in size, also rates the majority of indicators None to Slight and Slight to Moderate. Most indicators fall within normal range of variability with only slight departures from established parameters. The typical desert vegetation is comparable to Antelope Pasture. Snakeweed is common throughout and give the invasive plants a Moderate to Extreme rating. Annual forbs are curing and giving way to warmer season perennials. Rock, gravel and cobble cover here is high and estimated at approximately 60 percent.
- 3. Dark Canyon Pasture site covers 4,018 acres/1,627 hectares. All indicators with the exception of invasive plants rated None to Slight and Slight to Moderate with very minor deviations from established parameters. Tobosa (Pleuraphis mutica), blue grama (Bouteloua gracilis), black grama, Hall's panicum (Panicum hallii) and tridens are the chief grasses encountered. Cholla (Opuntia spinosa), javelinabush (Condalia spp.) and beargrass are shrub species observed.
- 4. East Turner Pasture, an upland site with an area of 2,430 acres/984 hectares is grazed by sheep at present. A recent storm event has re-located litter and other materials as evidenced by water flow and soil movement. Litter is down and rates Moderate. Numerous water flow patterns exist but remain short. Vegetative changes have negatively affected infiltration as runoff is observed. The black grama component remains but hairy grama (Bouteloua hirsuta) is gone. Functional/structural groups rates Moderate as a result. Rock cover is again at a 60 percent estimate and holds for the long-term average. Annual production, estimated at 250 lbs/ac or kg/ha is only 1/4 of potential and slightly less than the long-term average. Snakeweed and catclaw are scattered and rate invasive plants Moderate. Reproductive capability of perennial plants is compromised and there are slight limitations. Gnawing activity by rodents, possibly porcupine (Erethizon dorsatum) on catclaw bark has left this shrub dead or decadent with just a few remaining live branches. The indicator with biotic attributes, plant mortality & decadence rates Slight to Moderate as mortality is higher than expected. All other indicators fall within normal range of variability and deviate slightly from established parameters and expected values.
- 5. West Sampson Pasture currently has sheep grazing both upland and depressional areas next to water sources, ie, dirt tanks and reservoirs. The acreage is 2,413 or 977 hectares. Estimated ground cover readings were mainly rock and litter. Litter is comprised of annual forbs that have cured and giving way to warm season perennials. The interspace

ped sample melted readily using the soil site stability test suggesting a reduction in organic matter. This indicator rates Moderate. Soil surface loss or degradation also rates Moderate. A-horizon soil layers have been eroded in some areas from underneath plant canopies. Cholla, acacia and snakeweed are scattered, rating invasive plants Moderate. Threeawn (Aristida spp.) and tridens are found in small amounts. Forbs croton (Croton spp.) and buckwheat (Eriogonum spp.) were also encountered. The remainder of indicators fall within normal range of variability.

- 6. Horseshoe Pasture has no livestock at present. Encompassing 2,082 acres/843 hectares, the study site is located on slopes in excess of 10 percent grade upland from the drainage of Crooked Creek where obvious coulees are present. No overland flow is evidenced considering the slope. The majority of indicators assessed rate None to Slight and Slight to Moderate. Rock cover approaches 70-80 percent and acts as an adequate infiltration mechanism as water adheres to these surfaces due to surface tension. Snakeweed, prickly pear and cholla dominate and rate invasive plants Extreme. Skunkbush, javelinabush, desert willow (Salix exigua) and walnut (Juglans spp.) dominate the drainage. Giant sacaton (Sporobolus gigantea), tobosa and burrograss (Scleropogon brevifolius) are grasses also at the bottom. Wolftail (Lycurus phleoides) and black grama are the major upland grasses. A good physical crust exists which protects the site as well.
- 7. South Well Camp Pasture is currently grazed by sheep. It is 2,163 acres/876 hectares in size. Our current estimate of ground cover indicates rock is 90 -100 percent. Long-term average is 71 percent and ESD parameter is 43 percent. In this instance, rock cover may need to replace bareground to appropriately reflect ground cover for this site. Functional/structural groups rates Moderate as an absence of grama and predominance of shrubs is observed. Annual production is only 1/4 and 1/3 of the ESD value and long-term average respectively. A current estimate of 150 lbs/ac or kg/ha rates this indicator Moderate. Litter is not a major component of ground cover here and has not been. Slight to Moderate, therefore is the rating given this indicator. Mariola was observed and appears to be increasing suggesting moderate to heavy sheep use.
- 8. North Well Camp Pasture has a number of indicators rating Moderate. Sheep are also in this pasture encompassing 3,288 acres/1,331 hectares for this site. Soil surface resistance to erosion and degradation, plant community composition and distribution relative to infiltration/runoff, functional/structural groups, invasive plants and physical crusts all deviate moderately from established parameters and long-term averages. Interspace ped samples melted readily using soil site stability tests indicating a reduction in organic matter. A-horizon layers are missing as evidenced by soil loss on the top, but remain intact to support some rooting. Infiltration is somewhat compromised but rock cover, historically averaging 40-47 percent is holding some water in place. Abundance of grass species is reduced especially the grama grass component. Tridens is the dominant grass along with tobosa and threeawn. Snakeweed is common throughout on upland portions and extends towards the draw head. Physical crusts are evident throughout but broken in continuity due to rock and gravel cover. Litter is made up mainly of annual forbs that have cured. All other indicators fall within normal range of variability.

- 9. South Turner Pasture is a CP-4 Limestone Hills ecological site. Soil is Ector/Rock outcrop on 3,436 acres/1,391 hectares. Sheep are utilizing this pasture at present. Indicators assessed fell mainly within None to Slight and Slight to Moderate categories. Bareground however rated Moderate estimated at 20-30 percent exceeding the ESD value of 18 and long-term average of 3.6. There are at least three different two-tracks leading into this site. Ranch and hunting roads dissect this pasture which may account for augmented bareground readings. Functional/structural groups rates Moderate. Blue grama and green sprangletop (Leptochloa dubia) are missing and replaced by fluffgrass (Dasyochloa pulchella), threeawn and tridens. Dogweed (Dyssodia spp.), mariola and cholla add to shrub components here. Annual production is estimated at 350 lbs/ac or kg/ha falling short of the ESD value of 1,225 for normal years but just slightly lower than the long-term average of 486. Invasive plants rates Moderate as snakeweed is scattered throughout. Forbs, buckwheat and croton, along with black grama remain on site. All other indicators assessed fall within normal range of variability.
- 10. Cedar Pasture is approximately 1/2 mile from water, also on a CP-4 Limestone Hills ecological site with Ector/Rock outcrop soil. The site is 2,398 acres/971 hectares in size and currently grazed by sheep. Indicators assessed rated Slight to Moderate and None to Slight exhibiting normal range of variability with a few exceptions. Bareground is estimated at 30 percent rating Moderate. Most plant groups are intact with smaller proportions of grama, threeawn, burrograss and squirreltail (Sitanion hystrix). Forbs, wooly indian wheat (Plantago spp.), buckwheat and croton dominate the lower reaches of this upland site. Mariola is the dominate shrub suggesting continued livestock use. Annual production rates Moderate with approximately 60 percent of potential currently estimated. Considering these and other factors, the site remains in stable condition. Cholla, snakeweed and catclaw all are scattered and rate invasive plants Moderate.
- 11. W. Twin Butte Pasture, a SD-3 Loamy ecological site is 1,382 acres/559 hectares in size. The soil is a Reakor-Pecos association that occurs in valleys between low hills and limestone areas. Slopes are 0 to 3 percent on elevations between 3,300 ft/1000m and 3,900 ft/1,182 m. Most indicators assessed rated Slight to Moderate with minor deviations from normal range of variability. Tobosa and burrograss dominate this lowland site with annual forbs curing and giving way to perennials such as globemallow (Sphaeralcea spp.) and croton. Sheep use this pasture for part of the year and utilize cholla and condalia along with some grass. This site also includes upland areas east and south dominated by cholla and snakeweed which are scattered.
- 12. Felix Pasture, also a SD-3 Loamy ecological site, encompasses 2,002 acres/810 hectares. Bigetty-Pecos is the soil association. This soil occurs on channeled flood plains of the Rio Hondo and Felix respectively but rarely floods. Slopes are 0 to 1 percent on elevations between 3,300 ft/1,000 m and 4,500 ft/1,364 m. A herd of cattle are currently using this pasture, but at a very conservative rate. This site is situated in a transitional zone between the Rio Felix drainage and an upland loamy complex. Only slight to moderate deviations exist for the indicators assessed. The lone indicator of concern is structural/functional groups exhibiting Moderate departures. Some perennial vegetation is missing such as sideoats (Bouteloua curtipendula), blue and black grama. The vegetative

ground cover however is adequate for site protection and annual production is high with an estimate of 450 lbs/ac or kg/ha. The site is very stable in soil, hydrologic and biotic attributes. The diversity of forbs, grass and shrubs is high for this area, as the drainage supports pseudo-riparian vegetation such as walnut, desert willow, giant sacaton and other representative species. The loamy upland complex consists of grasses; burrograss, tobosa and ear muhly (Muhlenbergia arenicola); forbs filaree (Erodium spp.), wooly indian wheat, globemallow and croton; shrubs snakeweed, prickly pear, Christmas cholla, snakeweed and mesquite. Some cattle trailing is evident as undoubtedly these animals traverse the drainage.

- 13. Crooked Creek Pasture, the remaining SD-3 Loamy ecological site is 3,472 acres/1,406 hectares in size. The soil association is Pecos-Dev and occurs in valleys of limestone hills along drainages west and southwest of the area surveyed. The slope is 0 to 3 percent on 3,300 ft/1,000 m to 4,500 ft/1,363 m elevation. No livestock were seen at the time of evaluation. Indicators assessed rated mainly Slight to Moderate exhibiting minor ranges of variability from established parameters. The site is missing the grama and muhly (Muhlenbergia spp.) grass components although tobosa and burrograss are abundant along the bottom. Functional/structural groups rates Moderate as a result. Invasive plants rates Moderate to Extreme as prickly pear and cholla are common throughout and potentially pose a threat to dominate. The annual forb component however is breaking down and forming an adequate mulch layer adding organic matter to the soil.
- 14. Pasture #2 is a SD-3 Shallow ecological site that encompasses 1,824 acres/738 hectares. The soil is a Lozier-Tencee complex occurring in the west-central part of the survey area. These formed in cobbly residual materials on low, limestone and indurated caliche hills. Slopes are 1 to 9 percent on elevations between 3,900 ft/1,182 m and 4,200 ft/1,272 m. No livestock are present. Most ground cover currently is comprised of small and cobble-sized rock. There is virtually no litter on the soil surface. Organic matter is reduced on this shallow site as exhibited by rapid melting of under the canopy soil ped samples. Resistance to erosion is reduced throughout resulting in a Moderate rating. Runoff is greater here suggesting infiltration has been hindered although rock cover is significant. Adverse changes in plant community coupled with dry conditions justify a Moderate rating. Functional/structural groups such as the grama grasses are missing and gradually being replaced by tridens and threeawn. F/S groups rates Moderate as does annual production which is estimated below the long-term average. Snakeweed and cholla are scattered throughout and give invasive plants a Moderate score. All other indicators however marginal remain within the normal range of variability.
- 15. Indian Bluff Pasture, with an acreage of 435 or 176 hectares has the similar soil phase as Pasture #2. Sheep are utilizing this site which is located on an upper bench northeast of Rio Felix. Although impacted by dry conditions and sheep use, the majority of indicators rated None to Slight and Slight to Moderate with normal ranges of variability from established parameters. Litter movement rates Moderate due to the piling of litter against obstructions and in depressional areas. Annual forbs have now cured and dried have been replaced by warm season perennials such as bladderpod (Lesquerella spp.), globemallow,

croton and hog potato (Hoffanseggia spp.) making up most of the litter component here. The gramas and dropseeds are missing in the area and have been replaced by threeawn and other shrubs. F/S groups rates Moderate due to this replacement. Creosote (Larrea tridentata) is common on this site along with scatterings of snakeweed. A physical crust is found but is very broken in continuity.

- 16. East Sampson Pasture is the remaining SD-3 Shallow ecological site with a Lozier-Tencee soil phase. It encompasses 1,770 acres/717 hectares. Indicators with all three; soil, hydrologic and biotic attributes rated None to Slight and Slight to Moderate indicating fair to good ecological condition. Grass species show very slight deviations from what should be on site. Litter is more than adequate with an estimation of 20 percent. Production is up from previous years and falls within normal range. Invasives, catclaw and snakeweed are scattered and rate Moderate. Agave is in bloom on the upland portions. The brush component is not as prevalent as other shallow sites. Tobosa dominates the bottom where water has settled. Thistles (Cirsium spp.) also dominate the area. Considering recent dry conditions, the site matches most capabilities expected.
- 17. Sixteen Pasture is the lone SD-3 Shallow ecological site with an Ector-Rock soil phase. This shallow site is 3,891 acres/1,575 hectares in size. No livestock are currently utilizing this pasture. Bareground is currently estimated at 30 to 40 percent, exceeding the long-term average of 5.6. Litter amount is now estimated at 10 percent and is within normal range. Annual forbs have cured and are allowing perennials like croton and buckwheat to establish. Snakeweed is common and rates invasive plants Moderate to Extreme. This rating alone will not skew the biotic attributes enough to warrant an at risk situation here. All other indicators fall within normal range of variability with None to Slight and Slight to Moderate ratings.

Hydrology -

#2 Pasture - The bareground indicator rated moderate. The amount of bareground has possibly increased due to recent dry conditions and wind/water erosion processes. Soil surface resistance to erosion rated moderate. The soil stability test showed a rapid melting under the plant canopy ped sample. The plant community composition and distribution relative to infiltration/runoff rated moderate. The recent dry conditions have possibly increased conversion from grassland to shrubland reducing infiltration and augmented runoff. The increase of all species and class would help water infiltration and decrease runoff. All other indicators rated none to slight and slight to moderate indicating a healthy ecological condition in relation to these indicators.

Antelope Pasture - The rills, water flow patterns, pedestals and/or terracettes, bareground, gullies, wind-scoured, blowouts, and/or deposition areas, litter movement, soil surface resistance to erosion, soil surface loss or degradation, plant community composition and distribution relative to infiltration and runoff, compaction layer, litter amount, and physical/chemical/biological crusts indicators have rated none to slight and slight to moderate, indicating a healthy ecological condition.

Cedar Pasture - The rills, water flow patterns, pedestals and/or terracettes, bareground, gullies, wind-scoured, blowouts, and or deposition areas, litter movement, soil surface resistance to erosion, soil surface loss or degradation, plant community composition and distribution relative to infiltration and runoff, compaction layer, litter amount, and physical/chemical/biological crusts indicators have rated none to slight and slight to moderate, indicating a healthy ecological condition.

Crooked Creek Pasture - The rills, water flow patterns, pedestals and/or terracettes, bareground, gullies, wind-scoured, blowouts, and or deposition areas, litter movement, soil surface resistance to erosion, soil surface loss or degradation, plant community composition and distribution relative to infiltration and runoff, compaction layer, litter amount, and physical/chemical/biological crusts indicators have rated none to slight and slight to moderate, indicating a healthy ecological condition.

Dark Canyon Pasture - The rills, water flow patterns, pedestals and/or terracettes, bareground, gullies, wind-scoured, blowouts, and or deposition areas, litter movement, soil surface resistance to erosion, soil surface loss or degradation, plant community composition and distribution relative to infiltration and runoff, compaction layer, litter amount and physical/chemical/biological crusts indicators have rated none to slight and slight to moderate, indicating a healthy ecological condition.

Sampson Pasture - The rills, water flow patterns, pedestals and/or terracettes, bareground, gullies, wind-scoured, blowouts, and or deposition areas, litter movement, soil surface resistance to erosion, soil surface loss or degradation, plant community composition and distribution relative to infiltration and runoff, compaction layer, litter amount, and physical/chemical/biological crusts indicators have rated none to slight and slight to moderate, indicating a healthy ecological condition.

Twin Butte Pasture - The rills, water flow patterns, pedestals and/or terracettes, bareground, gullies, wind-scoured, blowouts, and or deposition areas, litter movement, soil surface resistance to erosion, soil surface loss or degradation, plant community composition and distribution relative to infiltration and runoff, compaction layer, litter amount, and physical/chemical/biological crusts indicators have rated none to slight and slight to moderate, indicating a healthy ecological condition.

East Turner Pasture - The litter movement indicator rated moderate. The decrease in litter movement suggests that dry conditions have negatively affected growing conditions reducing litter production and it's movement. Litter is located against obstructions. The plant community composition and distribution relative to infiltration and runoff rated moderate. A reduction of plant cover has resulted in decreased infiltration resulting in increased runoff. The increase of all species and class would help water infiltration and curtail runoff. All other indicators rated none to slight and slight to moderate indicating a healthy ecological condition in relation to these indicators.

Felix Pasture - The rills, water flow patterns, pedestals and/or terracettes, bareground, gullies, wind-scoured, blowouts, and or deposition areas, litter movement, soil surface

resistance to erosion, soil surface loss or degradation, plant community composition and distribution relative to infiltration and runoff, compaction layer, litter amount and physical/chemical/biological crusts indicators have rated none to slight and slight to moderate, indicating a healthy ecological condition.

Horseshoe Pasture - The rills, water flow patterns, pedestals and/or terracettes, bareground, gullies, wind-scoured, blowouts, and or deposition areas, litter movement, soil surface resistance to erosion, soil surface loss or degradation, plant community composition and distribution relative to infiltration and runoff, compaction layer, litter amount and physical/chemical/biological crusts indicators have rated none to slight and slight to moderate, indicating a healthy ecological condition.

Indian Bluff Pasture - The litter movement indicator rated moderate. The decrease in litter movement suggests that the dry weather has negatively affected growing conditions reducing litter production and movement. Litter is located against obstructions.

N. Well Camp Pasture - Soil surface resistance to erosion rated moderate. Soil site stability test indicated a rapid melting of interspace ped samples. Organic matter is lacking. The physical/biological crust indicator rated moderate. There was a lack of physical soil crusts. Physical crusting is very weak. Plant community composition and distribution relative to infiltration and runoff rated moderate. The reduction in plant cover has resulted in decreased infiltration runoff increase. The increase of all species and class would help water infiltration and decrease runoff. All other indicators rated none to slight and slight to moderate indicating a healthy ecological condition.

S. Well Camp Pasture - The rills, water flow patterns, pedestals and/or terracettes, bareground, gullies, wind-scoured, blowouts, and or deposition areas, litter movement, soil surface resistance to erosion, soil surface loss or degradation, plant community composition and distribution relative to infiltration and runoff, compaction layer, litter amount and physical/chemical/biological crusts indicators have rated none to slight and slight to moderate, indicating a healthy ecological condition.

Sixteen Pasture - The rills, water flow patterns, pedestals and/or terracettes, bareground, gullies, wind-scoured, blowouts, and/or deposition areas, litter movement, soil surface resistance to erosion, soil surface loss or degradation, plant community composition and distribution relative to infiltration and runoff, compaction layer, litter amount, and physical/chemical/biological crusts indicators have rated none to slight and slight to moderate, indicating a healthy ecological condition.

South Turner Pasture - The bareground indicator rated moderate. The amount of bareground has possibly increased due to recent dry conditions and wind/water erosion processes. The rills, water flow patterns, pedestals and/or terracettes, bareground, gullies, wind-scoured, blowouts, and or deposition areas, litter movement, soil surface resistance to erosion, soil surface loss or degradation, plant community composition and distribution relative to infiltration and runoff, compaction layer, litter amount and

physical/chemical/biological crusts indicators have rated none to slight and slight to moderate, indicating a healthy ecological condition.

W. Sampson Pasture - Soil surface resistance to erosion rated moderate. Soil site stability testing indicates a rapid melting of interspace ped samples. Organic matter is lacking on this site. The soil surface loss or degradation rated moderate. The recent dry conditions, decrease in strength of physical crusts and/or absence, wind velocity, surface dryness, and reduced amount of surface plant cover has possibly increased soil horizon surface loss to degradation. Organic matter content has been reduced. All other indicators rated none to slight and slight to moderate indicating a healthy ecological condition.

W. Twin Butte Pasture - The rills, water flow patterns, pedestals and/or terracettes, bareground, gullies, wind-scoured, blowouts, and/or deposition areas, litter movement, soil surface resistance to erosion, soil surface loss or degradation, plant community composition and distribution relative to infiltration and runoff, compaction layer, litter amount and physical/chemical/biological crusts indicators rated none to slight and slight to moderate, indicating a healthy ecological condition.

Wildlife

Mule deer, pronghorn, Barbary sheep (Ammotragus lervia), scaled quail (Callipepla squamata), mockingbirds (Mimus polyglottos), turkey vultures (Cathartes aura), collared lizard (Crotaphytus collaris) and jackrabbits (Lepus californicus) have been observed in this allotment, as have various passerine birds, small mammals, and other reptilian species. Wildlife observations in this allotment indicate that they reside in it. However, the woven wire fences in the allotment restrict the gene flow for pronghorn between populations residing in adjacent pastures. While evidence of reproduction of mule deer and pronghorn have been observed, it is not known at what rate or if those young will be recruited into the adult populations. Additionally, competition with sheep for forage species can be detrimental to the wild ungulates well being. Forbs constitute the bulk of the dietary constituents available for wild ungulates. The lack of sufficient quantity and quality of browse species as the preferred source of nutrition for mule deer restricts this allotments potential for this species. Wildlife population data do not exist for this allotment therefore an assessment as to the status of these various species is not possible at this time.

Antelope, East Twin Butte, East Turner, West Sampson, Felix, Crooked Creek Pastures, and Pasture #2

Browse species were observed; however, browse species comprise a small portion of the vegetative community. This in turn results in some reduction in cover for mule deer. The lack of sufficient quantity and quality of browse species as the preferred source of nutrition for mule deer restricts this allotment's potential for this species. Forbs constitute the bulk of the dietary constituents available for mule deer. Because of the reduced quantities of available forage, a Moderate rating is required for wildlife habitat.

Mule deer, pronghorn, and jackrabbits were observed as were various passerine birds. Some burrowing activity by rodents is present in a few of these pastures indicating that at the very least, this component of the wild fauna is represented in them.

Dark Canyon Pasture

The lack of sufficient quantity and quality of browse species as the preferred source of nutrition for mule deer restricts this allotments potential for this species. Forbs constitute the bulk of the dietary constituents available for wild ungulates. Because of the reduced quantities of available forage, a Moderate rating is required for wildlife habitat.

Mule deer, Barbary sheep and pronghorn were the ungulates observed.

Horseshoe Pasture

Mule deer and pronghorn sign in the bottoms suggests these species utilize those areas for food and cover. Snakeweed, prickly pear and cholla dominate the uplands. Skunkbush, javelinabush, desert willow and walnut dominate the drainage. Giant sacaton, tobosa and burrograss are grasses found in the bottoms. Wolftail and black grama are the major upland grasses. This mix of vegetation types suggest that this pasture may be more amenable for supporting diverse wildlife populations than other pastures in the allotment thus a rating of Slight to Moderate is appropriate.

Pronghorn, mule deer sign, numerous coveys of scaled quail with fledglings and jackrabbits were observed.

South Well Camp Pasture

Some browse species were observed; however, browse species appear to be increasing in the vegetative community. This in turn results in an increase in cover for mule deer. The lack of sufficient quantity and quality of browse species as the preferred source of nutrition for mule deer restricts this allotments potential for this species. Forbs continue to constitute the bulk of the dietary constituents available for wild ungulates. Because of the reduced quantities of available quality forage, a Moderate rating is required for wildlife habitat.

Mule deer and jackrabbits were observed as were various passerine birds and raptors.

North Well Camp and South Turner Pastures

Some browse species observed in the drainages were condalia and rhus; however, browse species comprise a very small portion of the vegetative community. This in turn results in a reduction in cover for mule deer. The lack of sufficient quantity and quality of browse species as the preferred source of nutrition for mule deer restricts this allotments potential for this species. Forbs constitute the bulk of the dietary constituents available for mule

deer. Because of the low quantities of available forage, a Moderate rating is required for wildlife habitat

Pronghorn, mule deer and jackrabbits were observed as were various passerine birds and raptors.

Cedar Pasture

Some desirable browse species were observed; however, they comprise a very small portion of the vegetative community. This in turn results in a reduction in cover and forage for mule deer. Forbs constitute the bulk of the dietary constituents available for mule deer. Because of the reduced quantities of available forage, a Moderate rating is required for wildlife habitat.

Mockingbirds and turkey vultures were observed inhabiting the uplands and draws. Scaled quail were heard calling as well. Very little burrowing activity was observed indicating that perhaps burrowing mammal populations are at some reduced state in this pasture.

W. Twin Butte and Sixteen Pastures

The lack of sufficient quantity and quality of browse species as the preferred source of nutrition for mule deer restricts this allotments potential for this species. Forbs constitute the bulk of the dietary constituents available for wild ungulates. Because of the reduced quantities of available forage, a Moderate rating is required for wildlife habitat.

Pronghorn, mule deer, scaled quail and jackrabbits inhabit the site as do various passerine birds and raptors.

Indian Bluff Pasture

Mule deer and lagomorphs observed. Some browse species were found in the drainages; however, desirable browse species are being replaced by invasives in the vegetative community. This in turn results in a reduction in cover and forage for mule deer. Forbs constitute the bulk of the dietary constituents available for wild ungulates. Because of the reduced quantities of available forage, a Moderate rating is required for wildlife habitat.

East Sampson Pasture

Some browse species were observed; however, browse species comprise a very small portion of the vegetative community. This in turn results in a reduction in cover for mule deer. Forbs constitute the bulk of the dietary constituents available for wild ungulates. Because of the reduced quantities of available forage, a Moderate rating is required for wildlife habitat.

Collared lizard (Crotaphytus collaris) was observed as were numerous passerine birds, turkey vultures, and lagomorphs. Pronghorn and mule deer inhabit this pasture.

In the professional opinion of the Assessment Team, public land within Indian Bluff allotment #64090, meets Upland and Biotic standards. There are no Riparian issues present, therefore this standard was not addressed. See recommendations and site notes for further information regarding this ecological site.

The (*) indicates that the assessment had one or more indicator(s) rated moderate/extreme or extreme. These indicators are:

• Invasive Plants

These indicators by themselves are not enough to rate the site as not meeting a standard but may warrant future monitoring.

Recommendations: Current grazing schemes that allow for both cattle and sheep to use certain pastures, should be reviewed to ensure continued prudent practices remain intact. Carrying capacity for Indian Bluff is adequate at the moment and if drought conditions are forseen, then adjustments could be made. The allotment as a whole is recovering from past dry conditions and is rebounding. Both winter and summer precipitation benefit this allotment due to a wide range of vegetation and ecosites.

Brush treatment may be necessary in the future to curtail shrub encroachment that may inhibit grass production in certain areas/ pastures. At present, the current mosaic of shrub species allows wildlife opportunity for cover and food.

RFOs l	Upland :	and Biotic Standa	rd Ass	ses	sment Si	ummary	Workshe	eet
		SITE 64	090-#2	2-F	7225			
Legal La	and Desc	NENE 14 0130S 021 Meridian 23	0E			Acreag	e 1824	
	Ecosite	042CY025NM SHALLOW SD-3			I	Photo Take	n Y	
W	atershed	13060009040 FELIX	X					
C	bservers	NAVARRO/MCGEI	Ξ		Obsei	rvation Dat	e 06/10/20	005
County So	il Survey	NM666 CHAVES SO	OUTH		Soi	l Var/Taxa	d	
Soil N	Map Unit	Lt			Soil T	Taxon Nam	e LOZIEI	2
Text	ure Class	NM666 GRV-L				Soil Phas	e LOZIEF TENCE	
Texture	Modifier	NM666 COBBLY L	OAM					
III	Observed Avg			O		vg Growin Precipitatio	-	
NOAA Annual Precipitation			6.87		NOAA Growing Season Precipitation			5.8
NOAA Avg	g Annual cipitation		14.98			vg Growin Precipitatio	-	12.8
		Sheep is the livestock observed on this ite a					t were not	
Part 2. Attr	ibutes ar	nd Indicators						
						ological Sit		
Attribute	Indicator	rs .	Extren	- 11	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
SH	Rills							X
Comments:								
SH	Water Fl	ow Patterns					X	
Comments:								
SH	Pedestals	s and/or Terracettes					X	
Comments:								
SH	Bare Gro	ound				X		
Comments:	Ground o	cover is mostly rock w	vith sor	ne	baregroun	d patches.		
SH	Gullies						X	

Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
Н	Litter Movement				X	
Comments:						
S H B	Soil Surface Resistance to Erosion			X		
Comments:	Plant canopy soil sample displa	ays reduc	ed resistan	ce to eros	ion.	
S H B	Soil Surface Loss or Degradation				X	
Comments:						
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X		
Comments:	Infiltration is compromised due amount of gravel and rock shows		-		r although	the
SHB	Compaction Layer					X
Comments:						
В	Functional/Structural Groups			X		
Comments:	Absence of gramas and rhus sp	pecies.				
В	Plant Mortality/Decadence					X
Comments:						
НВ	Litter Amount			X		
Comments:	Very little litter exists.					
В	Annual Production			X		
Comments:	40% of the potential is the curr	rent estim	ate at best.			
В	Invasive Plants			X		
Comments:	Snakeweed is scattered.					
В	Reproductive Capability of Perennial Plants				X	
Comments:						
S	Physical/Chemical/Biological Crusts				X	
Comments:	A weak physical crust is obser	ved but n	ot entirely	intact.		
В	Wildlife Habitat			X		

Comments:	Some browse species were observed, however, browse species comprise a very small portion of the vegetative community. This in turn results in a reduction in cover for mule deer. Forbs constitute the bulk of the dietary constituents available for both mule deer and pronghorn antelope. Because of the reduced quantities of available forage, a moderate rating is required for wildlife habitat									
В	Wildlife Populations				X					
Comments:	Muledeer and jackrabbits were observed as were various passerine birds. Wildlife observations in this pasture would indicate that they reside in it; however, the woven wire fences in the allotment restrict the gene flow of pronghorn antelope between and among populations residing in adjacent pastures. Wildlife population data do not exist for this allotment therefore an assessment as to the status of the various species is not possible at this time. While evidence of reproduction of muledeer and pronghorn antelope have been observed, it is not known at what rate or if those young will be recruited into the adult populations.									
В	Special Status Species Habitat					X				
Comments:	None known to occur.									
В	Special Status Species Populations					X				
Comments:	None known to occur.									
Part 3. Sun	nmarv									
A. Indicator attributes be	Summary - Each of the indicated with Standard Attributes.									
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight				
S	Soil	0	0	2	5	3				
H	Hydrologic	0	0	4	5	2				
В	Biotic	0	0	6	3	4				

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that

lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	2	8
Hydrologic		0	4	7
Biotic	The perennial grass component is reduced; the shrub component however appears to be on the rise.	0	6	7

Site Notes: This ecological site is observed to have reduced perennial grass along with a slight upward trend of shrubs, most notably acacia, nolina, cholla, yucca and especially snakeweed. Snakeweed is found throughout the shallow upland areas of this whole allotment and dominates in some pastures. It is scattered throughout here. The forb component is somewhat down.

		SITE 64090-A	ANTEL ()PE-F	226			
Legal Lan	d Desc	NESW 26 0130S 0210 23	E Meridia	an	Acre	age	2053	
]	Ecosite	070DY158NM VERY CP-4	SHALLC)W	Photo Ta	ıken	Y	
Wat	tershed	13060009030 TWIN B	BUTTE					
Ob	servers	NAVARRO/ARTHUN	J/JAQUE	Z	Observation I	Date	06/03	/2005
	ity Soil Survey	NM666 CHAVES SOU	UTH		Soil Var/Ta	ıxad		
Soil Ma	ap Unit	EcC			Soil Taxon Na	ame	ECTO)R
Texture	e Class NM666 CB-L				Soil Ph	nase	ECTO ROC)R-
Texture M	odifier	ifier NM666 COBBLY LOAM						
	ed Avg Annual oitation			Observed Avg Growing Season Precipitation				
	OAA Annual Precipitation		6	6.87 NOAA Growing Season Precipitation				5.8
_	A Avg Annual oitation	14.85			NOAA A Growing Sea Precipitat	ason	12.0	
Disturband Anim	ces and al Use:	Livestock on this site i	s primaril	y sheep	•			
Part 2. Attı	ributes	and Indicators						
					Ecological Sit logical Refere		Areas	
Attribute	Indica	tors	Extreme	Modera to Extren	Moderate		ght to derate	None to Sligh
S H	Rills							X
Comments:								
SH	Water	Flow Patterns						X
Comments:								
SH	Pedest	als and/or Terracettes					X	
Comments:	Some	pedestaling on rocks.						
SH	Bare C	Ground				X		

RFOs Upland and Biotic Standard Assessment Summary Worksheet

Comments:	Baregound is estimated at 20% Long-term average is 18% for				k.
SH	Gullies				X
Comments:					
S	Wind-scoured, Blowouts, and/or Deposition Areas				X
Comments:					
Н	Litter Movement				X
Comments:					
SHB	Soil Surface Resistance to Erosion			X	
Comments:					
SHB	Soil Surface Loss or Degradation			X	
Comments:					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X	
Comments:					
SHB	Compaction Layer				X
Comments:					
В	Functional/Structural Groups		X		
Comments:	Absence of the grama grass co	mponent.			
В	Plant Mortality/Decadence				X
Comments:					
НВ	Litter Amount				X
Comments:	Now estimated at 10-15%, while 4 and 1% respectively.	ich exceeds the lo	ng-term aver	age and E	SD of
В	Annual Production			X	
Comments:	350 lbs/ac or kg/ha is the curre approximately 270 lbs/ac or kg		term averag	e is	
В	Invasive Plants		X		
Comments:	Snakeweed is scattered.	•			
В	Reproductive Capability of Perennial Plants				X
Comments:					

S	Physical/Chemical/Biological Crusts				X						
Comments:	Physical crusts evident.										
В	Wildlife Habitat			X							
Comments:	Some browse species were observed; however, browse species comprise a very small portion of the vegetative community. This in turn results in a reduction in cover for mule deer. Forbs constitute the bulk of the dietary constituents available for both mule deer and pronghorn antelope. Because of the reduced quantities of available forage, a moderate rating is required for wildlife habitat										
В	Wildlife Populations				X						
Comments:	Mule deer, pronghorn antelope, and jackrabbits were observed as were various passerine birds. Wildlife observations in this pasture would indicate that they reside in it; however, the woven wire fences in the allotment restrict the gene flow for pronghorn antelope between and among populations residing in adjacent pastures. Wildlife population data do not exist for this allotment therefore an assessment as to the status of the various species is not possible at this time. While evidence of reproduction of mule deer and pronghorn antelope have been observed, it is not known at what rate or if those young will be recruited into the adult populations.										
В	Special Status Species Habitat					X					
Comments:	None known to occur.										
В	Special Status Species Populations					X					
Comments:	None known to occur.										
Part 3. Sun	nmarv										
A. Indicator attributes be each of the S	Summary - Each of the indicate elow. An indicator is placed in a Standard Attributes.		y (columns Moderate to			None to					
Attribute			Extreme			Slight					
Attribute											
S	Soil	0	0	0	5	5					
	Soil Hydrologic	0	0	0	5 5						

table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		0	3	10

Site Notes: This site is currently being grazed by sheep. Muledeer and lagomorphs were observed on site. Some use on acacia can be seen with condalia, agave, nolina, mariola and other shrubs. Long-term average for rock cover is 60% including large and small rock. Perennial grass is primarily tridens and some black grama.

RFOs	Uplan	d and Biotic Standa	rd Asses	ssme	ent Su	ımmary	Wo	rkshe	eet
		SITE 64090)-CEDA	R-F	231				
Legal Lan	d Desc	NENW 11 0140S 0210 23)E Meridi	an		Acre	age	2398	
]	Ecosite	070DY151NM LIMES HILLS CP	STONE		Photo Taken		ken	Y	
Wa	tershed	13060009030 TWIN B	UTTE						
Ob	servers	NAVARRO/ARTHUN	J/JAQUE	Z	Ob	servation D	ate	06/03	/2005
	ity Soil Survey	NM666 CHAVES SO	UTH		S	oil Var/Ta	xad		
Soil Ma	ap Unit	EcD			Soi	l Taxon Na	ıme	ECTO)R
Textur	e Class	NM666 CB-L				Soil Ph	iase	ECTO ROC)R-
Texture M	lodifier	NM666 COBBLY LO	AM						
	ed Avg Annual oitation				Observed Avg Growing Season Precipitation				
	NOAA Annual Precipitation		6	6.87 NOAA G Season Prec		OAA Grown Precipitat	_		5.8
	A Avg Annual oitation		14.85		Gı	NOAA Arowing Sea Precipitat	son		12.66
Disturbane Anim	ces and al Use:	Livestock on this site i	s primaril	y she	еер.			,	
Part 2. Att	ributes	and Indicators							
						ological Sit ical Refere		Areas	
Attribute	Indicat	tors	Extreme		derate to reme	Moderate		ght to derate	None to Slight
S H	Rills								X
Comments:							<u> </u>		
S H	Water	Flow Patterns						X	
Comments:							·		
S H	Pedest	als and/or Terracettes						X	
Comments:	Some 1	pedestaling on rocks an	d shrubs.						
S H	Bare C	Fround						X	

Comments:	Now estimated at 30%.					
S H	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement					X
Comments:						
SHB	Soil Surface Resistance to Erosion				X	
Comments:						
SHB	Soil Surface Loss or Degradation				X	
Comments:						
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
SHB	Compaction Layer					X
Comments:						
В	Functional/Structural Groups			X		
Comments:	Absence of grama grass and rethe shrub which is dominating	-				
В	Plant Mortality/Decadence					X
Comments:	Some mortality on acacia.					
НВ	Litter Amount				X	
Comments:	Estimate is currently 10-15%.					
В	Annual Production			X		
Comments:	Estimate is 300 lbs/ac or kg/ha	ı.				
В	Invasive Plants			X		
Comments:	Snakeweed is scattered along	with acac	ia and chol	la. Mariola	a is commo	on.
В	Reproductive Capability of Perennial Plants				X	
Comments:						
S	Physical/Chemical/Biological Crusts				X	

	Physical crusting evident.										
В	Wildlife Habitat			X							
Comments:	very small portion of the vege reduction in cover and forage dietary constituents available										
В	Wildlife Populations			X							
Comments:	Mockingbirds (Mimus polyglo observed inhabiting the upland squamata) were heard calling observed indicating that perha reduced state. Wildlife popula therefore an assessment as to t at this time.	ds and dra as well. V ps burrow tion data	ws. Scaled ery little bying mamn do not exis	l quail (Ca ourrowing a nal populat of this a	llipepla activity wa ions are at llotment	s some					
В	Special Status Species Habitat					X					
Comments:	None known to occur.										
	None known to occur. Special Status Species Populations					X					
В	Special Status Species					X					
B Comments: Part 3. Sur	Special Status Species Populations None known to occur.										
B Comments: Part 3. Sun A. Indicator attributes be	Special Status Species Populations None known to occur.					ne					
B Comments: Part 3. Sun A. Indicator attributes be	Special Status Species Populations None known to occur. mmary Summary - Each of the indicatelow. An indicator is placed in					ne					
B Comments: Part 3. Sun A. Indicator attributes be each of the Standard	Special Status Species Populations None known to occur. mmary Summary - Each of the indicatelow. An indicator is placed in	a category	Moderate to) above an	d summed Slight to	ne for None to					
B Comments: Part 3. Sun A. Indicator attributes be each of the Standard Attribute	Special Status Species Populations None known to occur. mmary r Summary - Each of the indicatelow. An indicator is placed in Standard Attributes.	a category Extreme	Moderate to Extreme) above an	Slight to Moderate	None to Sligh					

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the

ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		0	5	8

Site Notes: This site is currently utilized by sheep. Mariola is common throughout which suggests over-use by livestock. There is no evidence of use on this shrub. Blue grama and buckwheat are found in lesser amounts. Beargrass and prickly pear are common also. Snakeweed is also found. Some forb component exists.

RFOs	Upland a	and Biotic Standa	rd Asse	ssment Si	ummary V	Worksh	eet
	;	SITE 64090-CRO	OKED	CREEK-	F237		
Legal I	Land Desc	SWNW 29 0140S 02 Meridian 23	210E		Acrea	age 3472	2
	Ecosite	042CY007NM LOA SD-3	MY		Photo Tak	xen Y	
1	Watershed	13060009020 MIDE FELIX	DLE				
	Observers	NAVARRO/ARTH	UN	Obs	servation D	ate 07/0	7/2005
County So	oil Survey	NM666 CHAVES S	OUTH	S	Soil Var/Tax	kad	
Soil	Map Unit	PH		Soi	l Taxon Na	me PEC	OS
Tex	ture Class	NM666 GR-L			Soil Ph	ase PEC	
Texture	Modifier	NM666 SILTY CLA LOAM	AY				
Obse Annual Pre	erved Avg ecipitation				Avg Grown		
	A Annual ecipitation	6.87		NOAA Growing Season Precipitation			5.8
NOAA Av	yg Annual ecipitation		14.85	NOAA Avg Growing Season Precipitation			12.66
	ances and imal Use:	No livestock in this	pasture p	resently.			
Part 2. Att	ributes an	d Indicators					
					ological Site		ıs
Attribute	Indicator	S	Extreme	Moderate to Extreme	Moderate	Slight to Moderat	
S H	Rills						X
Comments:							
SH	Water Flo	ow Patterns				X	
Comments:							
SH	Pedestals	and/or Terracettes				X	
Comments:							
SH	Bare Gro	und				X	

Comments:	Current estimate is 30%.					
SH	Gullies				X	
Comments:	Only on the roads leading into	the site.				
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
Н	Litter Movement				X	
Comments:	Some displacement.					
SHB	Soil Surface Resistance to Erosion				X	
Comments:						
SHB	Soil Surface Loss or Degradation				X	
Comments:						
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
SHB	Compaction Layer					X
Comments:						
В	Functional/Structural Groups			X		
Comments:	Grama and muhley grass comp	onents n	nissing.			
В	Plant Mortality/Decadence					X
Comments:						
НВ	Litter Amount				X	
Comments:	Current estimate is 40%, altho cover.	ugh the n	najority is	annual forb	s as groui	nd
В	Annual Production				X	
Comments:	Current estimate is 450-500 lb	s/ac or kg	g/ha.			
В	Invasive Plants		X			
Comments:	Prickly pear is common through	ghout alo	ng with cho	olla.		
В	Reproductive Capability of Perennial Plants				X	
Comments:						
S	Physical/Chemical/Biological Crusts				X	

Comments:									
В	Wildlife Habitat			X					
Comments:	Some browse species were observed; however, browse species comprise a very small portion of the vegetative community. This in turn results in a reduction in cover for mule deer. The lack of sufficient browse species as an alternate but preferred source of forage restricts this sites' potential. Forbs constitute the bulk of the dietary constituents available for both mule deer and pronghorn antelope. Because of the reduced quantities of quality forage, a moderate rating is required for wildlife habitat								
В	Wildlife Populations			X					
Comments:	Vildlife observations in this pasture would indicate that they reside in it; owever, the woven wire fences in the allotment restrict the gene flow for ronghorn antelope between and among populations residing in adjacent								
В	Special Status Species Habitat					X			
Comments:	None known to occur.								
В	Special Status Species Populations					X			
Comments:	None known to occur.								
Part 3. Sun	ımary								
attributes be	Summary - Each of the indicated with summary - Each of the indicated in standard Attributes.								
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight			
S	Soil	0	0	0	7	3			
TT	Hydrologic	0	0	0	9	2			
H									

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the

determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		1	3	9

Site Notes: This ecological site is situated in a loamy inclusion next to the Crooked Creek drainage. The productive potential is high here, but the prickly pear and cholla are beginning to encroach to the point of perhaps taking over the site. The composition if these opuntias is disproportionately higher than expected. The grama and muhley grass components are reduced and missing. Annual forbs make up most of the litter and ground cover. Burrograss and tobosa are the two grasses on site. Vegetation like the willow, walnut, sumac, condalia and other trees occupy the ravine type coulee area.

No livestock were observed at the time of assessment.

		SITE 64090-DA	RK CA	NYON-F	233			
Legal I	and Desc	NESW 33 0140S 02 Meridian 23	10E		Acre	age	4018	
	Ecosite	070DY158NM VER SHALLOW CP-4	Υ		Photo Tal	ken	Y	
V	Vatershed	13060009020 MIDE FELIX	DLE					
(Observers	NAVARRO/ARTHI	UN	Obs	servation D	ate	07/08/	2005
County So	oil Survey	NM666 CHAVES S	OUTH	S	oil Var/Ta	xad		
Soil	Map Unit	EcC		Soi	l Taxon Na	ime	ECTC	R
Tex	ture Class	NM666 CB-L			Soil Ph	1200	ECTC ROC	R-
Texture	Modifier	NM666 COBBLY L	OAM			Î		
Obse Annual Pre	erved Avg ecipitation				Avg Grown Precipitat	- U		
NOAA Annual Precipitation			6.87 NOAA Growing Season Precipitation			5.8		
NOAA Av Pre	g Annual cipitation	14.85			Avg Grown Precipitat	- 1	⊞ I/nr	
	ances and imal Use:							
Part 2. Att	ributes ar	nd Indicators						
					ological Siti ical Refere		Areas	
Attribute	Indicator	s	Extreme	Moderate to Extreme	Moderate		ght to lerate	None to Sligh
S H	Rills							X
Comments:	1							
S H		ow Patterns						X
Comments:	1					<u> </u>		
S H		and/or Terracettes					X	
Comments:		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
S H	Bare Gro	ound					X	
	Current e							

SH	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
Н	Litter Movement				X	
Comments:	The litter is holding in place.					
SHB	Soil Surface Resistance to Erosion					X
Comments:	Soil ped sample of the interspartability test.	ace shows	s virtually r	no melting	using the s	soil
SHB	Soil Surface Loss or Degradation				X	
Comments:	Some rock and pebbles have n	nigrated t	owards the	surface.		
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:	The rock and gravel cover is a	iding in i	ncreased in	filtration.		
SHB	Compaction Layer					X
Comments:						
В	Functional/Structural Groups				X	
Comments:	Only slight reductions exist.					
В	Plant Mortality/Decadence					X
Comments:						
НВ	Litter Amount				X	
Comments:	Current estimate is 10%.					
В	Annual Production				X	
Comments:	500 lbs/ac or kg/a is the currer Creek" accounts for increase in			nage area, '	'Crooked	
В	Invasive Plants			X		
Comments:	Snakeweed is scattered.					
В	Reproductive Capability of Perennial Plants					X
Comments:						
S	Physical/Chemical/Biological Crusts				X	

Comments:	A good physical crust exists.							
В	Wildlife Habitat			X				
Comments:	The lack of sufficient browse species as an alternate but preferred source of nutrition restricts this sites' potential. Forbs constitute the bulk of the dietary constituents available for wild ungulates. Because of the reduced quantities of available forage, a moderate rating is required for wildlife habitat.							
В	Wildlife Populations			X				
Comments:	Mule deer, barbary sheep and pronghorn antelope were the ungulates observed. Wildlife population data do not exist for this allotment therefore an assessment as to the status of the various species is not possible at this time.							
В	Special Status Species Habitat					X		
Comments:	None known to occur.							
В	Special Status Species Populations					X		
Comments:	None known to occur.							
Part 3. Sun	nmary							
attributes be	Summary - Each of the indication. An indicator is placed in Standard Attributes.							
Standard Attribute		Extreme	Moderate to	Moderate	Slight to			
S			Extreme		Moderate	None to Slight		
	Soil	0	Extreme 0	0		to		
Н	Soil Hydrologic	0		0	Moderate	to Slight		
H B			0		Moderate 4	to Slight		
B. Attribute table above <i>More Info</i> , a Values from determination ID team conclead to the concleance.	Hydrologic	otreme and leet columne to Slight ow. Space tainly be uses. Provertiate box	0 0 0 d Extreme nn, Modera ht merge to is provide used when ide the sou	to Modera te become of form the d for ration the determ rces of info	Moderate 4 6 4 te columns s May Need Meets columale of the ination by ormation the	to Slight 6 5 6 in the d mns.		

		More Info	
Soil	0	0	10
Hydrologic	0	0	11
Biotic	0	3	10

Site Notes: The site includes the Crooked Creek drainage along with the upland. Vegetation like willow, sumac, condalia, walnut and other tree species inhabit the drainage. The change in vegetation is obvious when the lowland grades towards the upland shallower soil. Tobosa and burrograss dominate the transition zone eventually giving way to the grama grass and tridens component. Beargrass and yucca also can be found on the shallow upland. Prickly pear and cholla also are found in abundance.

Muledeer, pronghorn and barbary sheep were the ungulates observed at the time of assessment. The water distribution appears to be adequate. Numerous covies of quail were observed also. No livestock are utilizing this pasture presently.

RFOs	Upland a	and Biotic Standa	rd Ass	sessment S	ummary \	Worksh	eet	
		SITE 64090-E	SAM	PSON-F22	23			
Legal L	and Desc	SESE 3 0130S 0220 Meridian 23	Е		Acreag	e 1770		
	Ecosite	042CY025NM SHALLOW SD-3			Photo Take	n Y		
V	Vatershed	13060007030 ZUBE	R					
(Observers	NAVARRO/ARTHU	JN	Obse	rvation Dat	e 06/17/2	005	
County So	il Survey	NM666 CHAVES S	OUTH	So	il Var/Taxa	d		
Soil	Map Unit	Lt		Soil	Гахоп Nam	e LOZIE	R	
Text	ure Class	NM666 GRV-L			Soil Phas	e LOZIEI TENCE		
Texture	Modifier	NM666 COBBLY L	OAM					
Obse Annual Pre	rved Avg cipitation			Observed A Season	vg Growin Precipitatio			
	A Annual cipitation		6.87		AA Growin Precipitatio	O	11 7 X	
NOAA Av Pre	g Annual cipitation		14.85	NOAA Avg Growing Season Precipitation		O	12.66	
	ances and imal Use:	No sheep observed in	n this p	asture at the	time of asso	essment.		
Part 2. Attı	ributes an	d Indicators						
				ure from Eco ption/Ecolog				
Attribute	Indicator	S	Extrem	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight	
S H	Rills						X	
Comments:								
SH	Water Flo	ow Patterns				X		
Comments:								
SH	Pedestals	and/or Terracettes				X		
Comments:								
SH	Bare Gro	und				X		
Comments:	Baregoro in some a	ound is now estimated areas.	l at 30%	. Rock cove	r may be as	mkuch as	s 50%	

SH	Gullies				X
Comments:					
S	Wind-scoured, Blowouts, and/or Deposition Areas				X
Comments:					
Н	Litter Movement			X	
Comments:					
S H B	Soil Surface Resistance to Erosion			X	
Comments:					
S H B	Soil Surface Loss or Degradation			X	
Comments:					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X	
Comments:	Only minor affects on infiltrati	on exist.			
SHB	Compaction Layer				X
Comments:					
В	Functional/Structural Groups			X	
Comments:	Prickly pear (Opuntia spp.), ch microcarpa), Tridens spp., crot greggii), blue grama (Boutelou mutica), broom snakeweed (Gu was flowering. Also of mention	on (Croton s a gracilis), D atierrezia sar	pp.), catclaw (Acadalea spp., tobosa othrae) century Pl	acia spp. (Pleuraphi lant (Agav	is
В	Plant Mortality/Decadence				X
Comments:					
НВ	Litter Amount				X
Comments:	Estimation is now 20% exceed	ing both the	long-term average	e and the E	ESD.
В	Annual Production			X	
Comments:	Estimation is now 500 lbs/ac of areas hold more moisture and h				
В	Invasive Plants		X		
Comments:	Acacia spp. and snakeweed (G	utierrezia saı	othrae) scattered.		
В	Reproductive Capability of Perennial Plants				X
Comments:					

S	Physical/Chemical/Biological Crusts				X						
Comments:	Good physical crust.										
В	Wildlife Habitat			X							
Comments:	very small portion of the vege reduction in cover for mule de constituents available for both	ome browse species were observed; however, browse species comprise a very small portion of the vegetative community. This in turn results in a eduction in cover for mule deer. Forbs constitute the bulk of the dietary constituents available for both mule deer and pronghorn antelope. Because of the reduced quantities of available forage, a moderate rating is required for wildlife habita									
В	Wildlife Populations				X						
Comments:	passerine birds, turkey vulture antelope (Antilocapra america inhabit this pasture. Wildlife p	Collared lizard (Crotaphytus collaris) were observed as were numerous asserine birds, turkey vultures (Cathartes aura), and lagomorphs. Pronghorn ntelope (Antilocapra americana) and mule deer (Odocoileus hemionus) habit this pasture. Wildlife population data do not exist for this allotment nerefore an assessment as to the status of the various species is not possible t this time.									
В	Special Status Species Habitat					X					
Comments:	None known to occur.										
В	Special Status Species Populations					X					
Comments:	None known to occur.										
Part 3. Sun	nmary										
attributes be	Summary - Each of the indical elow. An indicator is placed in Standard Attributes.										
Standard		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight					
Attribute											
	Soil	0	0	0	6	4					
Attribute S H	Soil Hydrologic	0	0	0	7	4					

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the

determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		0	2	11

Site Notes: Tobosa flat comprised approximately 30% of site. Thistle was observed. Very little mesquite. Century Plant (Agave spp.) was flowering in adjacent areas. No sheep were observed in this pasture at the time of assessment.

RFOs	Upland a	and Biotic Standa	rd Asse	ssment Si	ummary	Worksh	eet	
		SITE 64090-E T	TWIN B	UTTE-F2	229			
Legal I	and Desc	SENE 36 0130S 02 Meridian 23	10E		Acrea	age 1813		
	Ecosite	070DY158NM VEI SHALLOW CP-4	RY		Photo Tal	ken Y		
7	Watershed	13060009040 FELI	X					
	Observers	ARTHUN/MCGEE	,	Obs	servation D	oate 06/21	/2005	
County So	oil Survey	NM666 CHAVES S	SOUTH	S	oil Var/Tax	xad		
Soil	Map Unit	EcC		Soil	l Taxon Na	me ECT	OR	
Texture Class		NM666 CB-L			Soil Ph	ase ROC	OR-	
Texture	Modifier	NM666 COBBLY I	LOAM					
Observed Avg Annual Precipitation					Avg Grown Precipitat	• II		
NOAA Annual Precipitation			6.87	7 NOAA Growing Season Precipitation			5.8	
NOAA Avg Annual Precipitation			14.85		Avg Grown Precipitat	- 11		
	ances and imal Use:							
Part 2. Attı	ributes an	d Indicators						
				re from Eco ion/Ecolog			S	
Attribute	Indicators	3	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Sligh	
S H	Rills						X	
Comments:								
S H	Water Flo	ow Patterns				X		
Comments:								
S H	Pedestals	and/or Terracettes				X		
Comments:						-		
S H	Bare Grou	und				X		
Comments:	Present es	stimate is 30%. Long	g-term ave	erage for ro	ck cover is	72%.		
S H	Gullies					X		

Comments:					
S	Wind-scoured, Blowouts, and/or Deposition Areas			X	
Comments:					
Н	Litter Movement			X	
Comments:					
SHB	Soil Surface Resistance to Erosion				X
Comments:					
SHB	Soil Surface Loss or Degradation			X	
Comments:					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X	
Comments:					
SHB	Compaction Layer				X
Comments:					
В	Functional/Structural Groups			X	
Comments:	Some reduction in F/S groups.				
В	Plant Mortality/Decadence				X
Comments:					
НВ	Litter Amount			X	
Comments:	Annual forbs make up the major	ority of litter.			
В	Annual Production			X	
Comments:	Approximately 60% of potentia	al.			
В	Invasive Plants	X			
Comments:	Snakeweed is common				
В	Reproductive Capability of Perennial Plants			X	
Comments:					
S	Physical/Chemical/Biological Crusts			X	
Comments:	Physical crusting evident.		-		
В	Wildlife Habitat		X		
Comments:	Some browse species were obs	erved; however, br	owse specie	s compris	se a

	very small portion of the vegetative community. This in turn results in a reduction in cover for mule deer. Forbs constitute the bulk of the dietary constituents available for both mule deer and pronghorn antelope. Because of the reduced quantities of available forage, a moderate rating is required for wildlife habitat						
В	Wildlife Populations				X		
Comments:	Pronghorn antelope (Antilocapra americana) and mule deer (Odocoileus hemionus) and jackrabbits were observed as were various passerine birds and raptors. Wildlife observations in this pasture would indicate that they reside in it; however, the woven wire fences in the allotment restrict the gene flow for pronghorn antelope between and among populations residing in adjacent pastures. While evidence of reproduction of mule deer and pronghorn antelope have been observed, it is not known at what rate or if those young will be recruited into the adult populations. Wildlife population data do not exist for this allotment therefore an assessment as to the status of the various species is not possible at this time.						
В	Special Status Species Habitat					X	
Comments:	None known to occur.						
В	Special Status Species Populations					X	
Comments:	None known to occur.						
Part 3. Sur	nmarv						
attributes be each of the	r Summary - Each of the indicatelow. An indicator is placed in Standard Attributes.	a category) above an	d summed		
Standard Attribute		Extreme	to Extreme	Moderate	Slight to Moderate	to Slight	
	Soil	0	0	0	7	3	
S	3011						
S H	Hydrologic	0	0	0	8	3	

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the

ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		1	1	11

Site Notes: This is a typical shallow site with desert shrub vegetation. Beargrass, threeawn, snakeweed, yucca and prickly pear are dominant. A population of thistle exists on the road and deeper depressional areas adjacent to the immediate study area. Annual forbs have dried up and are making way for perennial warm season plants. Site is located in a State section.

RFOs	Upla	nd and Biotic Standa	rd Asses	ssm	nent Su	ımmary	Wo	rkshe	et
		SITE 64090-EA	ST TU	RN]	ER-F2	232			
Legal Land	Desc	NENE 25 0140S 0210E 23	Meridian			Acrea	age	2430	
Ed	cosite	070DY158NM VERY S CP-4	HALLOV	V		Photo Tal	ken	Y	
Wate	rshed	13060009020 MIDDLE	060009020 MIDDLE FELIX						
Obse	ervers	NAVARRO/ARTHUN/J	JAQUEZ		Obs	ervation D	ate	06/03/	2005
County	y Soil urvey	NM666 CHAVES SOUT	NM666 CHAVES SOUTH		S	oil Var/Tax	xad		
Soil Map	Unit	nit EcC			Soil	Taxon Na	me	ЕСТО	R
Texture	Class	NM666 CB-L				Soil Ph	ase	ECTO ROC	R-
	exture difier	NM666 COBBLY LOA	M						
Observed A Precipi	nnual					Observed Avg rowing Season Precipitation			
NOAA A		6.87			OAA Growing n Precipitation		5.8		
NOAA A Precipi	nnual		14.	.85	Gr	NOAA Avg Growing Season Precipitation			12.66
		Livestock on this site is per the acacia as per convers			-	-	orcu	ipine u	se on
Part 2. Attı	ribute	s and Indicators							
			_			ological Sit ical Refere		Areas	
Attribute	Indic	ators	Extreme		oderate to atreme	Moderate	1	ght to derate	None to Slight
S H	Rills								X
Comments:			<u> </u>						
SH	Wate	r Flow Patterns						X	
Comments:	1	e are numerous water flow s where rain flow was exc	-	s. E	vidence	of a viole	nt th	unders	storm
SH	Pedes	stals and/or Terracettes						X	

Comments:					
SH	Bare Ground			X	
Comments:	Small and large rock is the ma	jority of ground	cover.		
SH	Gullies				X
Comments:					
S	Wind-scoured, Blowouts, and/or Deposition Areas				X
Comments:					
Н	Litter Movement		X		
Comments:	Litter is piled up against obstru	ections.			
SHB	Soil Surface Resistance to Erosion				X
Comments:					
SHB	Soil Surface Loss or Degradation			X	
Comments:					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff		X		
Comments:	Infiltration is affected by change	ges in plant cove	er. Obvious run	off exists	•
SHB	Compaction Layer				X
Comments:					
В	Functional/Structural Groups		X		
Comments:	Absence of grama grass.				
В	Plant Mortality/Decadence			X	
Comments:	Numerous acacia is dead and d	lying due to use	by rodents.		
НВ	Litter Amount			X	
Comments:					
В	Annual Production			X	
Comments:					
В	Invasive Plants		X		
Comments:	Snakeweed and acacia scattere	d.			
В	Reproductive Capability of Perennial Plants			X	
Comments:	Slight limitations exist.				
S	Physical/Chemical/Biological			X	

	Crusts								
Comments:	Physical crusts exist.								
В	Wildlife Habitat			X					
Comments:	Some browse species were observed; however, browse species comprise a very small portion of the vegetative community. This in turn results in a reduction in cover for mule deer. Forbs constitute the bulk of the dietary constituents available for both mule deer and pronghorn antelope. Because of the reduced quantities of available forage, a moderate rating is required for wildlife habitat								
В	Wildlife Populations			X					
Comments:	Pronghorn antelope (Antilocapra americana), mule deer (Odocoileus emionus) and jackrabbits were observed as were various passerine birds and aptors. Wildlife observations in this pasture would indicate that they reside it; however, the woven wire fences in the allotment restrict the gene flow or pronghorn antelope between and among populations residing in adjacent astures. While evidence of reproduction of mule deer and pronghorn intelope have been observed, it is not known at what rate or if those young will be recruited into the adult populations. Wildlife population data do not exist for this allotment therefore an assessment as to the status of the various species is not possible at this time								
В	Special Status Species Habitat					X			
Comments:	None known to occur.								
В	Special Status Species Populations					X			
Comments:	None known to occur.								
attributes be	nmary Summary - Each of the indication is placed in Standard Attributes.								
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight			
S	Soil	0	0	0	5	5			
т т	Hydrologic	0	0	2					
H	Trydrologic	U	0		5	4			

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	2	9
Biotic		0	4	9

Site Notes: Sheep are utilizing this pasture. There is an obvious indication that water flow has reached some areas and carried along with it litter and other materials. Infiltration may have been compromised. As per conversation with Wildlife Biologist; there appears to be porcupine use on the cambium layer of the acacia. Numerous acacia is either dead, decadent or dying. The gnawing activity on these shrubs suggests porcupine use.

RFOs	Upland	and Biotic Standa	rd Ass	essment Si	ımmary \	Workshe	eet	
		SITE 6409	0-FEL	IX-F239				
Legal L	and Desc	NENE 34 0140S 022 Meridian 23	0E		Acreag	Acreage 2002		
	Ecosite	042CY007NM LOAD SD-3	MY	1	Photo Take	n Y		
W	atershed	13060009040 FELIX						
	bservers	NAVARRO/ARTHU	JN	Obser	rvation Dat	e 06/23/20	005	
County So	il Survey	NM666 CHAVES SO	DUTH	Soi	l Var/Taxa	d		
Soil I	Map Unit	BP		Soil 7	Taxon Nam	e BIGET	ГΥ	
Text	ure Class	NM666 L			Soil Phas	e BIGETT PECOS	ГҮ-	
Texture	Modifier	NM666 LOAM,SILT LOAM	-					
Observed Avg Annual Precipitation					Observed Avg Growing Season Precipitation			
	A Annual cipitation	6.87			AA Growin Precipitatio	- ∥	5.8	
NOAA Av	g Annual cipitation		14.85		vg Growin Precipitation	- ∥	12.66	
		Cattle are in this past and from the drainage			Some trailin	ng observe	ed to	
Part 2. Att	ributes a	nd Indicators						
				ure from Eco otion/Ecolog				
Attribute	Indicator	rs	Extrem	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight	
S H	Rills						X	
Comments:								
SH	Water Fl	ow Patterns				X		
Comments:				<u> </u>				
SH	Pedestal	s and/or Terracettes				X		
Comments:	Some ele	evated tobosa.						
SH	Bare Gro	ound				X		

Comments:	Estimation is currently 20-30%	,).				
SH	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
Н	Litter Movement				X	
Comments:	Some displacement.					
SHB	Soil Surface Resistance to Erosion					X
Comments:	Soil ped sample of the interspa sufficient.	ice is hole	ding intact;	organic ma	atter cont	ent is
SHB	Soil Surface Loss or Degradation				X	
Comments:						
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
SHB	Compaction Layer					X
Comments:						
В	Functional/Structural Groups			X		
Comments:	Reduction in grama grass com	ponent.				
В	Plant Mortality/Decadence					X
Comments:						
НВ	Litter Amount				X	
Comments:	Majority of litter is now annua are making way for perennials	,	ilaree) whic	ch have nov	w dried up	and
В	Annual Production				X	
Comments:	Current estimate is 450 lbs/ac	or kg/ha.				
В	Invasive Plants				X	
Comments:	Cholla, snakeweed, and prickly	y pear les	s than scat	tered.		
В	Reproductive Capability of Perennial Plants				X	
Comments:						
S	Physical/Chemical/Biological					X

	Crusts						
Comments:	Fairly uniform.						
В	Wildlife Habitat			X			
	Browse species were observed; however, browse species comprise a small portion of the vegetative community. This in turn results in a some reduction in cover for mule deer. The lack of sufficient browse species as an alternate but preferred source of forage restricts this sites' potential. Forbs constitute the bulk of the dietary constituents available for both mule deer and pronghorn antelope. Because of the reduced quantities of available forage, a moderate rating is required for wildlife habita						
В	Wildlife Populations			X			
Comments:	(Antilocapra americana), mule were observed as were various observations in this pasture we woven wire fences in the allot antelope between and among p	Some burrowing activity by rodents is present. Pronghorn antelope (Antilocapra americana), mule deer (Odocoileus hemionus) and jackrabbits were observed as were various passerine birds and raptors. Wildlife observations in this pasture would indicate that they reside in it; however, the woven wire fences in the allotment restrict the gene flow for pronghorn antelope between and among populations residing in adjacent pastures. Wildlife population data do not exist for this allotment therefore an					
В	Special Status Species Habitat					X	
Comments:	None known to occur.						
В	Special Status Species Populations					X	
Comments:	None known to occur.						
Part 3. Sun	nmary						
attributes be	Summary - Each of the indical selow. An indicator is placed in selandard Attributes.		y (columns			for	
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight	
S	Soil	0	0	0	4	6	
Н	Hydrologic	0	0	0	7	4	
В	Biotic	0	0	3	5	5	
B. Attribute	3. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the						

table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		0	3	10

Site Notes: The site evaluated appears to be on a transitional bench between the Rio Felix and the upland just to the north. The two-track leading into the site dissects the the coulee and upland. Vegetation like desert willow, sumac, condalia, alkali sacaton and walnut are plentiful here. Muledeer inhabit this site and use the psuedo-riparian vegetation in the coulee for cover and browse. Burrowing rodents and lagomorphs also utilize the both areas. Livestock in the form of cattle are in this area and there is some trailing through the site and drainage also.

RFOs	Upland a	and Biotic Standa	rd Asses	ssment Si	ımmary \	Woı	rkshe	et	
		SITE 64090-H	ORSES	HOE-F23	34				
Legal L	and Desc	SWNW 1 0150S 021 Meridian 23	.0E		Acrea	age	2082		
	Ecosite	070DY158NM VER SHALLOW CP-4	Y		Photo Tal	ken	Y		
V	Vatershed	13060009020 MIDD FELIX	LE						
(Observers	NAVARRO/ARTHU	JN	Observation Date		ate	07/08/	2005	
County So	il Survey	ey NM666 CHAVES SOUTH		S	oil Var/Tax	xad			
Soil	Map Unit	EcC		Soi	l Taxon Na	me	ECTC	R	
Text	ure Class	NM666 CB-L			Soil Ph	200	ECTC ROC	R-	
Texture	Modifier	NM666 COBBLY L	OAM						
Obse Annual Pre	rved Avg cipitation				Avg Grown Precipitat	- 1			
1	A Annual cipitation		6.87	- II		NOAA Growing Season Precipitation			5.8
NOAA Av Pre	g Annual cipitation		14.85 NOAA Avg Growing Season Precipitation			12.66			
	ances and imal Use:	No livestock observe	ed present	ly.					
Part 2. Attı	ributes ar	nd Indicators							
					ological Sit ical Refere		Areas		
Attribute	Indicator	s	Extreme	Moderate to Extreme	Moderate	Slig Mod	ght to derate	None to Slight	
	- · · ·								
SH	Rills							X	
Comments:									
SH		ow Patterns					X		
		l slope but water flow	if preser	nt is minim	al.				
SH		and/or Terracettes					X		
		excess of 10%.				Г			
SH	Bare Gro						X		
Comments:	Current e	estimate is 20% with t	the remain	nder of gro	und cover	mad	e up o	f	

Г

	mostly rock and gravel.					
SH	Gullies				X	
Comments:	The drainage has minimal gull tobosa stabilizing the banks.	ying with	ı vegetati	on like alka	li sacaton	and
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
Н	Litter Movement					X
Comments:						
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
SHB	Soil Surface Loss or Degradation				X	
Comments:						
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:	The rock cover is stabilizing the	ne site an	d aiding i	n infiltratio	n.	
SHB	Compaction Layer					X
Comments:						
В	Functional/Structural Groups				X	
Comments:	Only minor reductions exist.					
В	Plant Mortality/Decadence					X
Comments:						
НВ	Litter Amount				X	
Comments:	Is within the range expected at	5%.				
В	Annual Production				X	
Comments:	The current estimate is 500 lbs drainage area also which is hig				ccount the	
В	Invasive Plants		X			
Comments:	Snakeweed and cholla are com	imon.				
В	Reproductive Capability of Perennial Plants				X	
Comments:						
S	Physical/Chemical/Biological				X	

	Crusts						
Comments:	A physical crust is holding the cover.	soil in pl	ace where	it is not br	oken by ro	ock	
В	Wildlife Habitat				X		
	Mule deer (Odocoileus hemior americana) sign in the bottoms food and cover. Numerous cov fledglings were observed.	suggests	these spec	cies utilize	those area	s for	
Comments:	Snakeweed, prickly pear and cholla dominate the uplands. Skunkbush, javelinabush, desert willow (Salix exigua) and walnut (Juglans spp.) dominate the drainage. Giant sacaton (Sporobolus gigantea), tobosa and burrograss (Scleropogon brevifolius) are grasses found in the bottoms. Wolftail (Lycurus phleoides) and black grama are the major upland grasses. This mix of vegetation types suggest that this pasture may be more amenable for supporting diverse wildlife populations than other pastures in the allotment thus a rating of Slight to Moderate is appropriate.						
В	Wildlife Populations				X		
Comments:	Pronghorn antelope (Antilocar hemionus) sign, scaled quail (Cobserved. Wildlife observation in it; however, the woven wire for pronghorn antelope between pastures. While evidence of resquamata) it is not known at with adult populations. Wildlife population data do no assessment as to the status of the status	Callipeplas in this perfences in and amproduction that rate of	a squamata pasture wo a the alloth long popul- on of scaled or if those y	and jackr uld indicat nent restric ations resid quail (Ca young will	rabbits were that they the gene ding in adjulipepla be recruite	reside flow acent ed into	
В	Special Status Species Habitat					X	
Comments:	None known to occur.						
В	Special Status Species Populations					X	
Comments:	None known to occur.						
Part 3. Sun	ımary						
A. Indicator attributes be	Summary - Each of the indicated with the summary summary - Each of the indicated and summary s						

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	7	3
Н	Hydrologic	0	0	0	8	3
В	Biotic	0	1	0	8	4

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		1	0	12

Site Notes: This site includes both a very shallow and drainage area with loamy soil. Vegetation such as condalia, walnut, willow, sumac and alkali sacaton dominate the coulee which is dry at the moment. The type of vegetation that comprises the upland is snakeweed, black and blue grama, yucca, croton, tridens and beargrass. The snakeweed component is quite common throughout on the upland. The cover and browse for muledeer and pronghorn is within the drainage. There is a distinct zone between upland and lowland with change in elevation, soil and vegetation type. No livestock were observed at the time of assessment.

Numerous covies of quail were observed with fledglings in abundance.

RFOs	RFOs Upland and Biotic Standard Assessment Summary Worksheet						
		SITE 64090-IN	DIAN I	BLUFF-F2	238		
Legal L	and Desc	SESW 28 0140S 022 Meridian 23	20E		Acreag	e 435	
	Ecosite	042CY025NM SHA SD-3	LLOW]	Photo Take	n Y	
W	atershed	13060009020 MIDD FELIX	DLE				
	Observers	NAVARRO/ARTHU	JN	Obse	rvation Dat	e 06/16/2	005
County So	il Survey	NM666 CHAVES SOUTH		Soi	il Var/Taxa	d	
Soil I	Map Unit	Lt		Soil	Гахоп Nam	LOZIEI	3
Text	ure Class	NM666 GRV-L			Soil Phas	LOZIEI TENCE	- 11
Texture	Modifier	NM666 COBBLY L	OAM				
Obser Annual Pred	rved Avg cipitation			Gro	oserved Avantage of Season Precipitation	n	
	A Annual cipitation		6.87		NOA A Growing		5.8
NOAA Av Pred	g Annual cipitation		14.98		vg Growing Precipitation	- 11	12.8
	nnces and mal Use:	Sheep are the primar	y class o	of livestock	utilizing thi	s pasture.	
Part 2. Attı	ributes ar	nd Indicators					
				ure from Eco otion/Ecolog	C		
Attribute	Indicator	s	Extrem	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills						X
Comments:							
SH	Water Fl	ow Patterns				X	
Comments:							
SH	Pedestals	s and/or Terracettes				X	
Comments:						-	
SH	Bare Gro	ound				X	

G .	Estimation is now at 50%. Small	all rock and	pebbles ma	ake up so	me of the	 ;
Comments:	ground cover; long-term avera		_			
SH	Gullies					X
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
Н	Litter Movement			X		
Comments:	Litter is up against obstruction	s.				
SHB	Soil Surface Resistance to Erosion				X	
Comments:						
SHB	Soil Surface Loss or Degradation				X	
Comments:	Some horizon loss has occurre	d as a natura	l process			
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:	Only minor effects on infiltration	ion.				
SHB	Compaction Layer					X
Comments:						
В	Functional/Structural Groups			X		
Comments:	Absence of grama and dropsee	ed is observe	d.			
В	Plant Mortality/Decadence					X
Comments:						
НВ	Litter Amount				X	
Comments:	Litter is made up mainly of coand making way for warm seas			which ha	ve now d	ried
В	Annual Production				X	
Comments:	Slightly above long-term avera	age but belov	w the ESD	for norm	al years.	
В	Invasive Plants		X			
Commenter	Snakeweed is scattered with coof beargrass and cholla.	reosote comr	non throug	ghout. Le	ss occurre	ence
В	Reproductive Capability of Perennial Plants				X	
	1 Cicilliai 1 lants					

S	Physical/Chemical/Biological Crusts				X	
Comments:	A weak physical crust exists w	vith some	breaks in	continuity.		
В	Wildlife Habitat			X		
Comments:	Mule deer and lagomorphs ob drainages; however, desireable invasives in the vegetative cor cover and forage for mule dee constituents available for both the reduced quantities of avail wildlife habitat	e browse : nmunity. r. Forbs c mule dee	species are This in tur onstitute the or and pron	being reple n results in the bulk of the ghorn ante	aced by a reduction the dietary lope. Beca	on in
В	Wildlife Populations			X		
Comments:	Wildlife observations in this p however, the woven wire fenc pronghorn antelope between a pastures. Wildlife population data do no assessment as to the status of t	es in the and among	allotment r g populatio r this alloti	estrict the good nestrict the good nestrict therefore	gene flow in adjacer	for nt
В	Special Status Species Habitat					X
Comments:	None known to occur.					
В	Special Status Species Populations					X
	None known to occur.					
Comments:						
Comments: Part 3. Sun	ımary					
Part 3. Sun A. Indicator attributes be	nmary Summary - Each of the indicated in a standard Attributes.		Moderate to			None to
Part 3. Sun A. Indicator attributes be each of the 3 Standard Attribute	Summary - Each of the indicated with the summary - Each of the indicated in summary - Each of the indicated with the	Extreme	Moderate to Extreme) above an	Slight to Moderate	None to Sligh
Part 3. Sun A. Indicator attributes be each of the S	Summary - Each of the indicated in section :	a category	Moderate to) above an	d summed Slight to	None to

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need*

More Info, and Slight to Moderate and None to Slight merge to form the Meets columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	1	10
Biotic		1	3	9

Site Notes: This upland site has a predominance of creosote and other shrubs such as acacia and beargrass. Overlooking drainages with condalia and sumac, this area may provide some habitat for deer and pronghorn. Sheep are utilizing some areas of this pasture. With the sparse vegetation, perhaps vegetative treatment for creosote may need to be evaluated prior.

RFOs Upland	and Biotic Standard Asses	ssment Summary Wo	rksheet	
	SITE 64090-N WELL-C	CAMP-F227		
Legal Land Desc	NWNW 8 0130S 0220E Meridian 23	Acreage	3288	
Ecosite	070DY158NM VERY SHALLOW CP-4	Photo Taken	Y	
Watershed	13060007030 ZUBER			
Observers	NAVARRO/ARTHUN	Observation Date	06/17/2005	
County Soil Survey	NM666 CHAVES SOUTH	Soil Var/Taxad		
Soil Map Unit	EcC	Soil Taxon Name	ECTOR	
Texture Class	NM666 CB-L	Soil Phase	ECTOR- ROC	
Texture Modifier	NM666 COBBLY LOAM			
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation		
NOAA Annual Precipitation	6.87	NOAA Growing Season Precipitation	5.8	
NOAA Avg Annual Precipitation	14.85	NOAA Avg Growing Season Precipitation	I / nn	
	Disturbances and Animal Use: Sheep are observed at the bottom of the drainage with muledeer in the drainage itself.			
Part 2. Attributes and Indicators				

Part 2. Att	ributes and Indicators						
		Departure from Ecological Site Description/Ecological Reference Areas					
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight	
S H	Rills					X	
Comments:	Water Flow Patterns				X		
Comments: S H	Pedestals and/or Terracettes				X		
Comments:							
SH	Bare Ground				X		
Comments:	Estimation is now 25%. The re	ock cover	is 44% for	r the long-t	term avera	ge.	
SH	Gullies					X	

Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:			L			
Н	Litter Movement				X	
Comments:						
SHB	Soil Surface Resistance to Erosion			X		
Comments:	The soil stability test indicates r sample.	rather rap	oid melting	of the int	erspace soi	il ped
SHB	Soil Surface Loss or Degradation				X	
Comments:	Some horizon loss has occured.					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X		
Comments:	Plant cover changes have negative evident and not necessarily on the state of the s	•		ration. Ru	noff is mo	re
SHB	Compaction Layer					X
Comments:						
В	Functional/Structural Groups			X		
Comments:	Aristida spp., cholla (Opuntia sp microcarpa), broom snakeweed (Hilaria mutica), Bouteloua grad	(Gutierre	ezia saroth	rae), Acad	cia spp., tol	bosa
В	Plant Mortality/Decadence					X
Comments:						
НВ	Litter Amount					X
Comments:	Estimate is now 45%. Annual for experienced a wet spring).	orbs acco	ount for the	higher po	ercent litter	(we
В	Annual Production				X	
Comments:	Estimation is now 300 lbs/ac or average and half of the ESD for	-		tely 60% (of the long-	-term
В	Invasive Plants		X			
Comments:	Snakeweed is common and affe	esting the	infiltration	n and com	position.	
В	Reproductive Capability of Perennial Plants				X	
Comments:						

S	Physical/Chemical/Biological Crusts			X					
Comments:	A weak physical crust exists a interspaces; not necessarily in		•	omponent	in the				
В	Wildlife Habitat			X					
Comments:	Some browse species observed in the drainages were condalia and rhus; however, browse species comprise a very small portion of the vegetative community. This in turn results in a reduction in cover for mule deer. Forbs constitute the bulk of the dietary constituents available for both mule deer and pronghorn antelope. Because of the reduced quantities of available forage, a moderate rating is required for wildlife habitat								
В	Wildlife Populations			X					
Comments:	Pronghorn antelope (Antilocal hemionus) and jackrabbits wer raptors. Wildlife observations in it; however, the woven wire for pronghorn antelope between pastures. While evidence of reantelope were observed, it is not recruited into the adult popular wildlife population data do not assessment as to the status of the	re observed in this part of the fences in and amproduction of known tions.	ed as were sture would the allotm tong population of mule at what ra	various pa d indicate nent restric ations resid deer and p te or if tho	sserine bir that they re t the gene ding in adja ronghorn se young v	eside flow acent will be			
В	Special Status Species Habitat					X			
Comments:	None known to occur.								
В	Special Status Species Populations					X			
Comments:	None known to occur.								
Part 3. Sun	nmary								
attributes be	Summary - Each of the indical selow. An indicator is placed in selandard Attributes.								
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight			
S	Soil	0	0	2	4	4			
Н	Hydrologic	0	0	2	5	4			

В	Biotic	0	1	4	3	5

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	2	8
Hydrologic		0	2	9
Biotic		1	4	8

Site Notes: Mule deer observed in the drainages leading into the study aea. Sheep are utilizing this pasture. Jackrabbits are in abundance. Snakeweed is common throughout and because of the slopes occuring, this may compromise the site's potential to prevent erosion. Weak crusting and rapid melting of the interspace soil sample points out a note of caution. The ground cover remains 40% rock and bareground respectively although annual forbs have flourished earlier in the year. Thistle can be found at the bottom of the drainage and along the road.

Ecosite S Watershed 1 Observers N	SITE 64090-S WELL 0 NENW 25 0130S 0210E Meridian 23 070DY158NM VERY SHALLOW CP-4 13060009040 FELIX	Acreage Photo Taken	2163				
Ecosite S Watershed 1 Observers N	Meridian 23 070DY158NM VERY SHALLOW CP-4		2163				
Watershed 1 Observers N	SHALLOW CP-4	Photo Taken					
Observers N	13060009040 FELIX		Y				
County Soil Survey	NAVARRO/MCGEE	Observation Date	06/10/2005				
	NM666 CHAVES SOUTH	Soil Var/Taxad					
Soil Map Unit E	EcC	Soil Taxon Name	ECTOR				
Texture Class N	NM666 CB-L	Soil Phase	ECTOR- ROC				
Texture Modifier N	NM666 COBBLY LOAM						
Observed Avg Annual Precipitation		Observed Avg Growing Season Precipitation					
NOAA Annual Precipitation	6.87	NOAA Growing Season Precipitation	5.8				
NOAA Avg Annual Precipitation	14.85	NOAA Avg Growing Season Precipitation	12.66				
	Disturbances and Animal Use: Sheep are utilizing this pasture. Ranch roads are numerous leading into watering points.						
Part 2. Attributes and		Part 2. Attributes and Indicators					

Part 2. Attı	ributes and Indicators							
				ological Sit				
		Description/Ecological Reference Areas						
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight		
SH	Rills					X		
Comments:								
SH	Water Flow Patterns				X			
Comments:								
SH	Pedestals and/or Terracettes				X			
Comments:								
SH	Bare Ground				X			
Comments:	The majority of ground cover	is rock.						
SH	Gullies				X			

Comments:					
S	Wind-scoured, Blowouts, and/or Deposition Areas				X
Comments:					
Н	Litter Movement			X	
Comments:		,			
S H B	Soil Surface Resistance to Erosion			X	
Comments:					
S H B	Soil Surface Loss or Degradation			X	
Comments:					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X	
Comments:	Only minor effects on infiltrati	on.			
SHB	Compaction Layer				X
Comments:					
В	Functional/Structural Groups		X		
Comments:	Absence of grama grasses.				
В	Plant Mortality/Decadence				X
Comments:					
Н В	Litter Amount			X	
Comments:					
В	Annual Production		X		
Comments:	150 lbs/ac or kg/ha is the curre	nt estimate.			
В	Invasive Plants	X			
Comments:	Snakeweed is common through	nout and dominates	some hills:	ides.	
В	Reproductive Capability of Perennial Plants				X
Comments:					
S	Physical/Chemical/Biological Crusts			X	
Comments:	Physical crusts observed.				
В	Wildlife Habitat		X		
Comments:	Some browse species were obs	erved; however, bro	wse speci	es appear t	to be

Part 3. Sur	nmary						
Comments.	None known to occur.						
	Populations None known to occur.						
В	Special Status Species					X	
Comments:	None known to occur.						
В	Special Status Species Habitat					X	
	Wildlife population data do no assessment as to the status of t					ime	
Comments.	and among populations residing in adjacent pastures.						
Comments:	in this pasture would indicate fences in the allotment restrict	that they	reside in it	; however,	the woven	wire	
	Muledeer (Odocoileus hemion observed as were various pass						
В	Wildlife Populations			X			
	cover for mule deer. The lack of sufficient desireable browse species as an alternate but preferred source of nutrition restricts this sites' potential. Forbs continue to constitute the bulk of the dietary constituents available for wild ungulates. Because of the reduced quantities of available quality forage, a moderate rating is required for wildlife habitat.						

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final

agreed upor	n determination by the ID team.			
Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		1	4	8

Site Notes: Ground cover is mostly rock at present. There is an obvious absence of grama grass but the shrubs like nolina, acacia, prickly pear and cholla are abundant. Snakeweed is common throughout and has the potential to dominate. Some forbs are seen like croton and globemallow. Sheep are utilizing this pasture. Gully formation is starting on the two-track leading into this site, but is slope dependent here.

RFOs	Upland a	nd Biotic Standa	rd Ass	essment Si	ımmary `	Worksho	eet
		SITE 64090-	-SIXTI	EEN-F235			
Legal	Land Desc	NENE 20 0140S 02 Meridian 23	220E		Acrea	age 3891	
	Ecosite	042CY025NM SHALLOW SD-3			Photo Tal	xen Y	
	Watershed	13060009040 FELI	IX				
	Observers	ARTHUN/MCGEF	Ξ	Obs	servation D	ate 06/21	/2005
County S	oil Survey	NM666 CHAVES SOUTH		S	oil Var/Tax	kad	
Soil	Map Unit	EcD		Soil	Taxon Na	me ECTO)R
Тех	cture Class	NM666 CB-L			Soil Phase ROC		R-
Textur	e Modifier	NM666 COBBLY	LOAM				
	erved Avg ecipitation				Avg Grown Precipitat	-	
NOAA Annual Precipitation		6.87		NOAA Growing Season Precipitation			5.8
NOAA Avg Annual Precipitation		14.85			Avg Grown Precipitat	- 11	12.66
	pances and nimal Use:						
Part 2. Att	ributes and	d Indicators					
				ure from Eco otion/Ecolog			
Attribute	Indicators		Extrem	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills						X
Comments:			-				-
S H	Water Flo	w Patterns				X	
Comments:							
SH	Pedestals	and/or Terracettes				X	
Comments:							
S H	Bare Grou	ınd				X	
	E-414- 1	s now 30-40%. Lon	4	0	0/ 6 1		

SH	Gullies				X	
Comments:						
S	Wind-scoured, Blowouts, and/or Deposition Areas				X	
Comments:						
Н	Litter Movement				X	
Comments:						
S H B	Soil Surface Resistance to Erosion					X
Comments:						
SHB	Soil Surface Loss or Degradation				X	
Comments:						
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X	
Comments:						
SHB	Compaction Layer					X
Comments:						
В	Functional/Structural Groups			X		
Comments:	Only minor reductions but the	absence o	of grama gr	ass is appa	rent.	
В	Plant Mortality/Decadence				X	
Comments:						
НВ	Litter Amount				X	
Comments:	Estimate is now 10%.					
В	Annual Production				X	
Comments:	Current estimate is 300 lbs/ac	or kg/ha.				
В	Invasive Plants		X			
Comments:	Snakeweed common.					
В	Reproductive Capability of Perennial Plants				X	
Comments:						
S	Physical/Chemical/Biological Crusts				X	
Comments:	Physical crusts observed.					
В	Wildlife Habitat			X		

Comments:	The lack of sufficient browse species as an alternate but preferred source of nutrition restricts this sites' potential. Forbs constitute the bulk of the dietary constituents available for wild ungulates. Because of the reduced quantities of available forage, a moderate rating is required for wildlife habitat.							
В	Wildlife Populations			X				
Comments:	Wildlife observations in this pasture would indicate that they reside in it; however, the woven wire fences in the allotment restrict the gene flow for pronghorn antelope between and among populations residing in adjacent pastures. Wildlife population data do not exist for this allotment therefore an assessment as to the status of the various species is not possible at this time.							
В	Special Status Species Habitat					X		
Comments:	None known to occur.							
В	Special Status Species Populations					X		
Comments:	None known to occur.							
attributes be	Summary - Each of the indicate solutions. An indicator is placed in							
each of the	Standard Attributes.					for		
Standard	Standard Attributes.	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None		
Standard Attribute	Standard Attributes. Soil	Extreme 0	to	Moderate 0	Slight to	None to		
Standard Attribute S			to Extreme		Slight to Moderate	None to Slight		
Standard Attribute S H	Soil	0	to Extreme	0	Slight to Moderate	None to Slight		

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		1	3	9

Site Notes: Snakweed, creosote, acacia and agave are the shrubs observed. This upland site has an obvious absence of gramas.

RFOs	Uplan	d and Biotic Standa	rd Asse	ssment Su	ımmary	Worksh	eet	
		SITE 64090-SOU	J TH T U	JRNER-F	236			
Legal Land	d Desc	NWNE 26 0140S 0210 Meridian 23	Acreago		ge 3436	3436		
Е	Ecosite	070DY151NM LIMES' HILLS CP		Photo Tak	en Y			
Wate	ershed	13060009020 MIDDLE FELIX	Ε					
Obs	ervers	NAVARRO/ARTHUN		Obse	ervation Da	Date 06/23/2005		
	ty Soil Survey	NM666 CHAVES SOUTH		So	oil Var/Taxad			
Soil Ma	p Unit	EcD		Soil	Taxon Nar	ne ECTO	R	
Texture	Class	NM666 CB-L			Soil Pha	se ROC	R-	
Texture Mo	odifier	NM666 COBBLY LOA	AM					
Observed Avg Annual Precipitation				Observed Avg Growing Season Precipitation				
NOAA Annual Precipitation		6.87			AA Growin Precipitation	- 11	7 II 7 X	
	A Avg Annual itation		14.85		Avg Growin Precipitation	-	I I / DD	
Disturbances and Animal Use: Sheep are using this pasture and there appears to be 3 extra two-trace roads leading into the site. Some traffic by hunters and ranch personnel.						track		
Part 2. Attr	ibutes	and Indicators						
			Departure from Ecological Site Description/Ecological Reference Areas					
Attribute	Indica	tors	Extreme	Moderate	Moderate	Slight to Moderate	None	
S H	Rills						X	
Comments:						<u> </u>		
SH	Water	Flow Patterns				X		
Comments:								
SH	Pedest	tals and/or Terracettes				X		

Comments:							
SH	Bare Ground			X			
Comments:	20-30% is the present estimate	e. Long-te	rm average	for rock	cover is 6	1%.	
SH	Gullies					X	
Comments:							
S	Wind-scoured, Blowouts, and/or Deposition Areas					X	
Comments:							
Н	Litter Movement					X	
Comments:							
S H B	Soil Surface Resistance to Erosion					X	
Comments:	Organic matter content is suffitogether.	cient. Soi	l ped on th	e interspa	ace is holdi	ing	
SHB	Soil Surface Loss or Degradation				X		
Comments:							
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff				X		
Comments:	Only minor effects. Rock and the site in infiltration.	gravel siz	e cover is 1	retaining	moisture to	aid	
SHB	Compaction Layer					X	
Comments:							
В	Functional/Structural Groups			X			
Comments:	Some groups reduced. Sprangletop and bluegrama missing. Black grama is present however.						
В	Plant Mortality/Decadence					X	
Comments:	-						
НВ	Litter Amount				X		
Comments:	Current estimate is 10-20%.						
В	Annual Production			X			
Comments:	Current estimate is 350 lbs/ac	or kg/ha.					
В	Invasive Plants			X			
Comments:	Snakeweed is scattered.				-11		
В	Reproductive Capability of					X	
					-14	-1	

	Perennial Plants					
Comments:						
S	Physical/Chemical/Biological Crusts				X	
Comments:	Physical crusts observed.					
В	Wildlife Habitat			X		
Comments:	Some browse species were ob- very small portion of the vege reduction in cover for mule de alternate but preferred source constitute the bulk of the dieta Because of the reduced quanti required for wildlife habita	tative conser. The last of forage ary constit	nmunity. Took of suffice the restricts the uents available.	This in turn cient brow is sites' por lable for w	results in a se species tential. For ild ungulat	as an ebs ees.
В	Wildlife Populations			X		
Comments:	Wildlife observations in this pasture would indicate that they reside in it; however, the woven wire fences in the allotment restrict the gene flow for pronghorn antelope between and among populations residing in adjacent pastures. Wildlife population data do not exist for this allotment therefore an assessment as to the status of the various species is not possible at this time.					
В	Special Status Species Habitat					X
Comments:	None known to occur.					
В	Special Status Species Populations					X
Comments:	None known to occur.					
Part 3. Sun	nmary					
attributes be	Summary - Each of the indical selow. An indicator is placed in a Standard Attributes.					
Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	1	4	5
Н	Hydrologic	0	0	1	5	5
В	Biotic	0	0	5	2	6

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	1	9
Hydrologic		0	1	10
Biotic		0	5	8

Site Notes: Upland site on limestone hills is currently grazed by sheep. Plenty of rock cover to aid in infiltration and water holding capacity. Desert shrub vegetation is dominant. mariola is found along with acacia. Black grama in cage is in better condition than outside.

RFOs l	U pland :	and Biotic Standa	rd Asses	ssment Si	ımmary	Worksh	eet
		SITE 64090-W	SAMP	SON-F22	24		
Legal L	and Desc	NWSW 9 0130S 022 Meridian 23	20E		Acres	age 2413	
	Ecosite	070DY158NM VER SHALLOW CP-4	Y		Photo Tal	ken Y	
W	atershed	13060007030 ZUBE	R				
C	bservers	NAVARRO/ARTHU	JN	Obs	servation D	oate 06/17	7/2005
County So	il Survey	NM666 CHAVES S	OUTH	Soil Var/Taxad		xad	
Soil I	Map Unit	EcC		Soil	l Taxon Na	me ECT	OR
Text	ure Class	NM666 CB-L		Soil Phace		ase ECTO	
Texture	Modifier	NM666 COBBLY L	OAM				
Obser Annual Pred	rved Avg cipitation				Avg Grown Precipitat	∪	
	A Annual cipitation		6.87		NOAA Growing Season Precipitation		5.8
				Avg Grown Precipitat		12.66	
	nces and mal Use:						
Part 2. Attr	ibutes ar	nd Indicators					
					ological Sit ical Refere		S
Attribute	Indicator	'S	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	11 17
S H	Rills						X
Comments:							
SH	Water Fl	ow Patterns				X	
Comments:							
SH	Pedestals	s and/or Terracettes				X	
Comments:							
SH	Bare Gro	ound				X	
Comments:	Estimation average.	on is now 20%. Rock	cover is c	close to 609	% for the lo	ong-term	

SH	Gullies			X	
Comments:		· ·	'		
S	Wind-scoured, Blowouts, and/or Deposition Areas				X
Comments:					
Н	Litter Movement			X	
Comments:					
SHB	Soil Surface Resistance to Erosion		X		
Comments:	Rather rapid melting of the inte	erspace soil	sample.		
S H B	Soil Surface Loss or Degradation		X		
Comments:	Horizon loss has occured. Orga	anic matter o	content is reduced.		
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X	
Comments:					
SHB	Compaction Layer				X
Comments:					
В	Functional/Structural Groups		X		
Comments:	Croton (Croton spp.), Acacia s Tridens spp., Aristida spp.,pric (Eriogonum annuum), Dalea sp of grama grass is apparent.	kly pear (O	puntia spp.), bucky	wheat	
В	Plant Mortality/Decadence				X
Comments:					
НВ	Litter Amount				X
Comments:	Estimation is now 20%.				
В	Annual Production			X	
Comments:	Estimation is now 300 lbs/ac ogrowth of shrubs and grasses a	0	nting all current lea	af and tille	er
В	Invasive Plants		X		
Comments:	Acacia, cholla, snakeweed scar	tered.			
В	Reproductive Capability of Perennial Plants				X
Comments:					
Comments.					

	Crusts					
Comments:	Weak physical crust, not conti infiltration and retention.	nous; roc	k is protec	ting soil ar	nd assisting	with
В	Wildlife Habitat			X		
	Some browse species were observable small portion of the vegetative in cover for mule deer. Forbs cavailable for both mule deer arquantities of available forage, habitat	commun constitute nd prongh	ity. This ir the bulk o orn antelo	n turn resul f the dietar pe. Becaus	Its in a redury constituence of the re-	iction ents
Comments:	Pronghorn antelope (Antilocaphemionus) and jackrabbits (Le various passerine birds and rapindicate that they reside in it; hallotment restrict the gene flow populations residing in adjacenmule deer and pronghorn antel what rate or if those young will	pus califo otors. Wil nowever, v for pron nt pasture lope have	ornicus) we dlife obser the woven ighorn ante s. While ev been obse	ere observed vations in wire fence elope betwee vidence of rved, it is i	ed as were this pasture es in the een and am reproduction not known	ong on of
В	Wildlife Populations			X		
Comments:	Pronghorn antelope (Antilocaphemionus) and jackrabbits (Le various passerine birds and rapindicate that they reside in it; I allotment restrict the gene flow populations residing in adjacer mule deer and pronghorn antel what rate or if those young will Wildlife population data do no assessment as to the status of t	pus califo otors. Will nowever, v for prom nt pasture lope have ll be recru	ornicus) we dlife obser the woven aghorn ante s. While ev been obse tited into the	ere observed vations in wire fence elope betwee vidence of rved, it is a me adult po	ed as were this pasture es in the een and am reproduction not known opulations.	ong on of at
В	Special Status Species Habitat					X
Comments:	None known to occur.					
В	Special Status Species Populations					X
Comments:	None known to occur.					
Part 3. Sun	ımary					
attributes be	Summary - Each of the indicated on a Standard Attributes.					

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	2	5	3
Н	Hydrologic	0	0	2	6	3
В	Biotic	0	0	6	1	6

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	2	8
Hydrologic		0	2	9
Biotic		0	6	7

Site Notes: High litter was the result of annual fobs; although it appeared annual forb production was reduced, however, forbs were not being replaced by Acacia spp. and Yucca. Very rocky site with reduction in perennial grass.

						ımmary	* * * * * * * * * * * * * * * * * * * *	3110	eı
		SITE 64090-W 7	TWIN B	UT	TE-F	230			
Legal Land	l Desc	SENW 2 0140S 0210E 23	Meridiar	1		Acrea	ge 138	32	
Е	cosite	042CY007NM LOAM	Y SD-3			Photo Tak	en Y		
Wate	ershed	13060009030 TWIN B	UTTE						
		NAVARRO/ARTHUN		Z	Obse	ervation Da	ate 06/0	03/2	2005
Count S	County Soil Survey NM666 CHAVES SOU		M666 CHAVES SOUTH		So	il Var/Tax	ad		
Soil Maj	p Unit	RH			Soil Taxon Name		ne RE.	AK	OR
Texture	ure Class NM666 L				Soil Pha	ICA	AK(OR-	
Texture Mo	odifier	NM666 LOAM							
Observe A Precipi	nnual				Gro	bserved A wing Seas Precipitati	on		
NOAA Annual Precipitation		6.8	37 S	NOAA Growing Season Precipitation		- I		5.8	
NOAA A Precipi	nnual	14.85		35	NOAA Avg Growing Season Precipitation		on		12.66
Disturbance Anima		Livestock on this site is	s primaril	y she	еер.	-			
Part 2. Attri	ibutes	and Indicators							
			Departur Descripti	e fro	m Eco Ecolog	ological Sit ical Refere	e ence Ar	eas	
Attribute	Indicat	ors	Extreme	1	derate to reme	Moderate	Slight Moder	ω	None to Slight
S H	Rills								X
Comments:							<u> </u>		
	Water	Flow Patterns					X		
Comments:							1		
	Pedesta	als and/or Terracettes					X		
Comments:									•
	D 0	round					X		

Comments:	Estimate is currently 40%.				
SH	Gullies				X
Comments:		*			
S	Wind-scoured, Blowouts, and/or Deposition Areas				X
Comments:					
Н	Litter Movement			X	
Comments:					
SHB	Soil Surface Resistance to Erosion			X	
Comments:					
SHB	Soil Surface Loss or Degradation			X	
Comments:					
Н	Plant Community Composition and Distribution Relative to Infiltration and Runoff			X	
Comments:					
SHB	Compaction Layer				X
Comments:					
В	Functional/Structural Groups		X		
Comments:	Absence of grama grasses. The annual forbs which are now dr just east of the immediate loca	ying up. Snakev			
В	Plant Mortality/Decadence			X	
Comments:	Most of the tobosa is dormant.				
НВ	Litter Amount			X	
Comments:	20% is the current estimate.				
В	Annual Production			X	
Comments:	600 lbs/ac or kg/ha is the curre production.	nt estimate. Tol	oosa makes up	most of tl	ne
В	Invasive Plants		X		
Comments:	Cholla is less than scattered, b	ut snakeweed is	found on the u	pland hil	lside.
В	Reproductive Capability of Perennial Plants			X	
Comments:	Some limitations.				

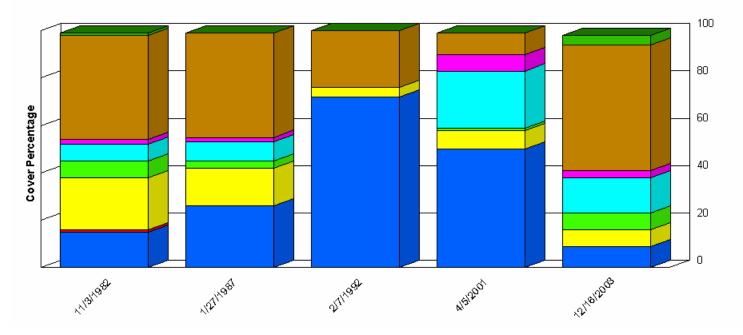
S	Physical/Chemical/Biological Crusts				X	
Comments:	Physical crusts observed.					
В	Wildlife Habitat			X		
Comments:	The lack of sufficient quality source of forage restricts this dietary constituents available quantities of available forage, habitat.	sites' pote for wild u	ntial. Forba ngulates. E	s constitute Because of	the bulk of the reduce	of the
В	Wildlife Populations			X		
Comments:	Pronghorn antelope (Antilocal hemionus), scaled quail (Callicalifornicus) ihabit the site as observations in this pasture we woven wire fences in the allot antelope between and among the Wildlife population data do not assessment as to the status of the	pepla squ do variou ould indic ment restr population ot exist for	amata) and s passerine tate that the rict the gen as residing	I jackrabbine birds and ey reside in the flow for in adjacen	ts (Lepus raptors. We it; howev pronghorn t pastures.	er, the
В	Special Status Species Habitat					X
Comments:	None known to occur.					
В	Special Status Species Populations					X
Comments:	None known to occur.					
Part 3. Sur	<u> </u> nmary					
A. Indicato	r Summary - Each of the indica					
attributes b	elow. An indicator is placed in Standard Attributes.	a category	y (columns) above an	d summed	for
attributes b		a category Extreme	Moderate to Extreme) above an	d summed Slight to Moderate	None to Slight
attributes be each of the Standard			Moderate to		Slight to	None to
attributes be each of the Standard Attribute	Standard Attributes.	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need*

More Info, and Slight to Moderate and None to Slight merge to form the Meets columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		0	4	9

Site Notes: This site is situated in a tobosa type swale with this grass dominating. Cholla is also found on site and is flowering. Quail, jackrabbits, passerines, muledeer and pronghorn inhabit this lowland area. Snakeweed is found on the upland east of the immediate location along with other less numerous species of shrubs.



	Tree SROCK Shrub LROCK LITTER Grass Forb BGROUND	
'		

	11/3/1982	1/27/1987	2/7/1992	4/5/2001	12/16/2003
BGROUND	15.00	26.00	72.00	50.00	9.00
Forb	1.00	0.00	0.00	0.00	0.00
Grass	22.00	16.00	4.00	8.00	7.00
LITTER	7.00	3.00	0.00	1.00	7.00
LROCK	7.00	8.00	0.00	24.00	15.00
Shrub	2.00	2.00	0.00	7.00	3.00
SROCK	44.00	44.00	24.00	9.00	53.00

	11/3/1982	1/27/1987	2/7/1992	4/5/2001	12/16/2003
Tree	1.00	0.00	0.00	0.00	4.00
Total	99.00	99.00	100.00	99.00	98.00

Report Parameters

 SITE NAME LIKE
 64090-#2-F225

 ON/AFTER
 10/01/1982

 ON/BEFORE
 09/30/2004

Functional / Structural Groups

Report Parameters

 SITE NAME LIKE
 64090-#2-F225

 ON/AFTER
 10/01/1982

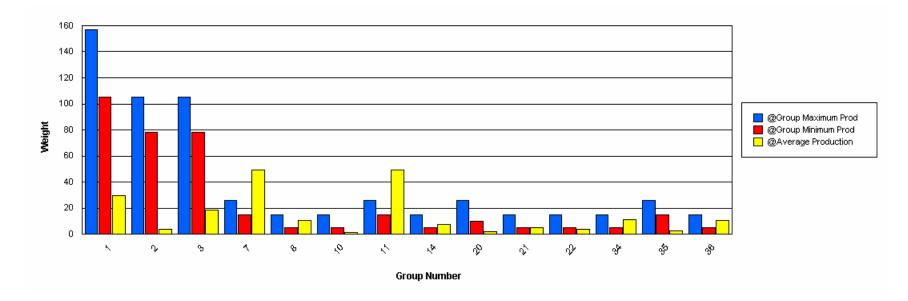
 ON/BEFORE
 09/30/2004

MIN LBS TO GRAPH 1

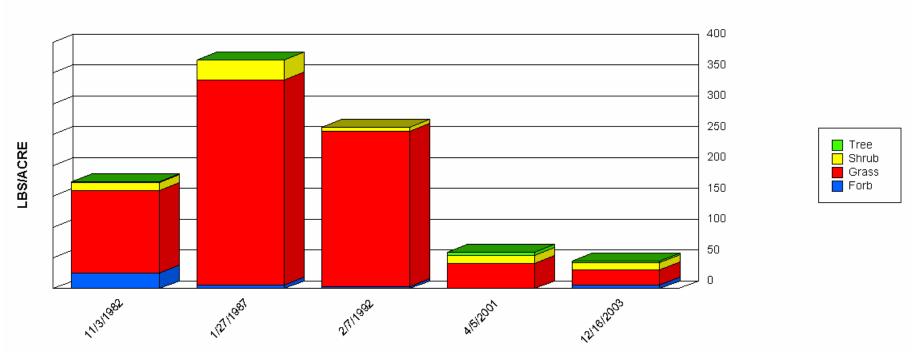
SELECTED ECOSITE 042CY025NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	105	157	0.00	62.72	29.91	24.49
2	Grass	BOCU	78	105	0.00	10.00	3.91	4.20
3	Grass	BOGR2	78	105	0.00	9.33	3.70	3.67
3	Grass	BOHI2	78	105	0.00	48.00	14.77	17.61
7	Grass	TRMU	15	26	0.00	35.33	19.24	15.69
7	Grass	TRPI2	15	26	0.00	78.67	29.97	29.09
8	Grass	MUAR	5	15	0.00	32.67	10.89	15.40
10	Grass	ERPU8	5	15	0.00	4.00	1.24	1.64
11	Grass	ARIST	15	26	0.00	43.12	18.76	16.02
11	Grass	HIMU2	15	26	8.50	47.00	24.11	16.54
11	Grass	MUAR2	15	26	0.00	28.00	6.55	10.88
14	Grass	ENDE	5	15	0.00	1.78	0.45	0.77
14	Grass	LYPH	5	15	0.00	15.00	3.44	5.81
14	Grass	PAHA	5	15	0.00	12.00	3.77	4.34
20	Forb	CROTO	10	26	0.00	3.27	1.52	1.53
20	Forb	ERIOG	10	26	0.00	1.83	0.46	0.79
21	Forb	AAFF	5	15	0.00	3.78	1.32	1.74
21	Forb	CONVO	5	15	0.00	0.37	0.09	0.16
21	Forb	DYPA	5	15	0.00	5.13	1.28	2.22
21	Forb	LINUM	5	15	0.00	0.37	0.09	0.16
21	Forb	POLYG4	5	15	0.00	8.07	2.02	3.49
22	Forb	CHCO	5	15	0.00	0.37	0.09	0.16
22	Forb	ERTE13	5	15	0.38	3.00	1.69	1.31
22	Forb	MELE2	5	15	0.00	3.67	0.92	1.59
22	Forb	SELO	5	15	0.00	1.83	0.90	0.90
24	Shrub	RHUS+	5	15	0.00	1.57	0.52	0.74

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
32	Shrub	OPIM	5	15	0.00	0.33	0.22	0.16
32	Shrub	OPUNT	5	15	0.00	0.13	0.04	0.06
33	Shrub	PAIN2	10	26	0.00	2.60	0.65	1.13
34	Shrub	GUSA2	5	15	0.00	25.48	11.07	9.16
35	Tree	YUEL	15	26	0.00	5.50	2.75	2.75
36	Shrub	ACACI	5	15	0.00	5.20	1.73	2.45
36	Shrub	ACCO2	5	15	0.00	12.00	6.00	6.00
36	Tree	ACGR	5	15	0.00	2.33	0.88	0.97
36	Shrub	DAFO	5	15	0.00	6.00	1.84	2.13
36	Shrub	DALEA	5	15	0.00	0.73	0.18	0.32



Production Lbs/Acre Trends



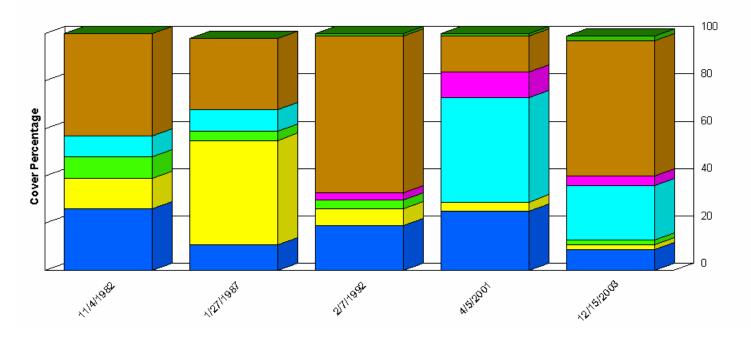
	11/3/1982	1/27/1987	2/7/1992	4/5/2001	12/16/2003
Forb	24.90	5.54	3.00	0.00	5.75
Grass	133.82	332.95	253.00	40.38	24.65
Shrub	13.78	32.71	6.00	13.25	11.69
Tree	1.20	0.00	0.00	5.50	2.33
Total	173.70	371.21	262.00	59.13	44.42

Report Parameters

 SITE NAME LIKE
 64090-#2-F225

 ON/AFTER
 10/01/1982

 ON/BEFORE
 09/30/2004



Tree SROCK Shrub LROCK LITTER Grass Forb BGROUND	

	11/4/1982	1/27/1987	2/7/1992	4/5/2001	12/15/2003
BGROUND	26.00	11.00	19.00	25.00	9.00
Forb	0.00	0.00	0.00	0.00	0.00
Grass	13.00	44.00	7.00	4.00	2.00
LITTER	9.00	4.00	4.00	0.00	2.00
LROCK	9.00	9.00	0.00	44.00	23.00
Shrub	0.00	0.00	3.00	11.00	4.00
SROCK	43.00	30.00	66.00	15.00	57.00

	11/4/1982	1/27/1987	2/7/1992	4/5/2001	12/15/2003
Tree	0.00	0.00	1.00	1.00	2.00
Total	100.00	98.00	100.00	100.00	99.00

Report Parameters

SITE NAME LIKE 64090-ANTELOPE-F226

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Functional / Structural Groups

Report Parameters

SITE NAME LIKE 64090-ANTELOPE-F226

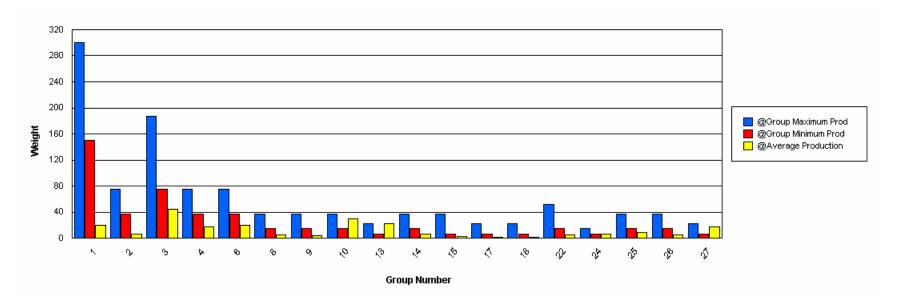
ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

MIN LBS TO GRAPH 1

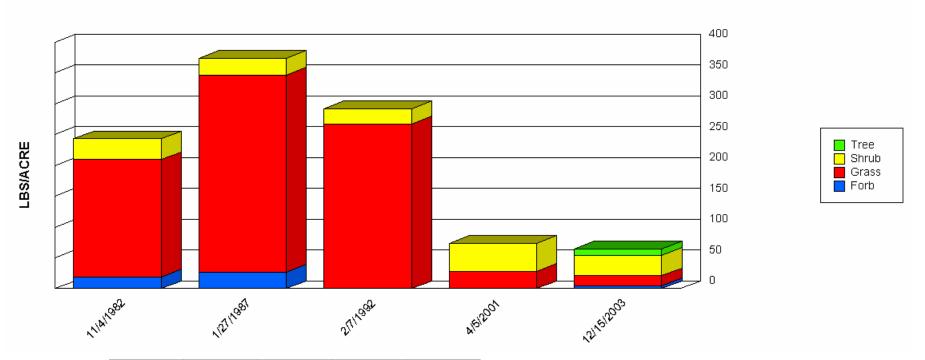
SELECTED ECOSITE 070DY158NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	150	300	1.70	63.00	20.26	22.17
2	Grass	BOCU	37	75	0.00	17.36	6.17	6.90
3	Grass	TRMU	75	187	0.00	53.27	20.36	19.27
3	Grass	TRPI2	75	187	0.00	61.56	24.18	24.08
4	Grass	BOGR2	37	75	0.00	54.67	16.76	20.20
4	Grass	SPCR	37	75	0.00	1.94	0.65	0.91
6	Grass	ARIST	37	75	0.00	60.11	20.52	20.54
8	Grass	LYPH	15	37	0.00	15.25	5.28	5.98
9	Grass	PAHA	15	37	0.00	14.00	4.31	5.40
10	Grass	BOHI2	15	37	0.00	92.00	25.93	34.38
10	Grass	ERPU8	15	37	0.00	3.40	1.73	1.27
10	Grass	HIMU2	15	37	0.00	5.01	2.05	2.15
10	Grass	LEDU	15	37	0.00	1.30	0.33	0.56
10	Grass	STNE2	15	37	0.00	0.58	0.19	0.27
13	Grass	ENDE	7	22	0.00	0.59	0.15	0.26
13	Grass	LECO	7	22	0.00	2.53	0.63	1.10
13	Grass	MUAR	7	22	0.00	33.97	11.32	16.02
13	Grass	MUAR2	7	22	0.00	38.97	9.90	16.79
14	Forb	CROTO	15	37	0.00	10.13	4.42	3.78
14	Forb	ERIOG	15	37	0.00	4.32	1.44	2.04
15	Forb	SELO	7	37	0.00	6.16	3.04	3.04
17	Forb	DYPA	7	22	0.00	4.03	1.01	1.75
18	Forb	AAFF	7	22	0.00	6.48	2.16	3.05
19	Forb	CASSI	7	22	0.00	0.37	0.09	0.16
19	Forb	MELE2	7	22	0.00	1.83	0.46	0.79
19	Forb	TRAM9	7	22	0.00	1.10	0.28	0.48

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
22	Shrub	NOMI	15	52	0.00	9.52	4.76	4.76
24	Shrub	OPUNT	7	15	0.00	10.00	6.44	4.57
25	Shrub	GUSA2	15	37	0.00	20.63	9.47	7.15
26	Shrub	DAFO	15	37	0.00	10.00	4.80	4.09
27	Shrub	ACACI	7	22	0.00	20.00	6.60	8.17
27	Shrub	ACCO2	7	22	0.00	21.33	10.67	10.67



Production Lbs/Acre Trends

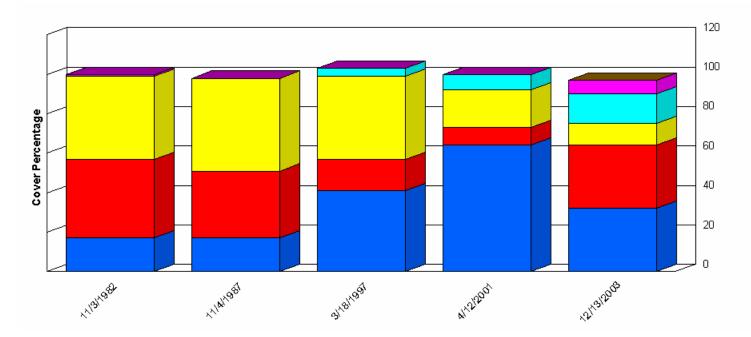


	11/4/1982	1/27/1987	2/7/1992	4/5/2001	12/15/2003
Forb	18.56	27.09	0.00	0.00	4.93
Grass	190.78	319.77	267.00	28.37	15.86
Shrub	33.80	27.03	25.00	44.57	32.78
Tree	0.00	0.00	0.00	0.00	10.33
Total	243.14	373.89	292.00	72.95	63.89

Report Parameters

SITE NAME LIKE 64090-ANTELOPE-F226

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004



Forb SROCK Shrub LROCK	
LITTER Grass BGROUND	

	11/3/1982	11/4/1987	3/18/1997	4/12/2001	12/13/2003
BGROUND	17.00	17.00	41.00	64.00	32.00
Forb	0.00	0.00	0.00	0.00	0.00
Grass	40.00	34.00	16.00	9.00	32.00
LITTER	42.00	47.00	42.00	19.00	11.00
LROCK	0.00	0.00	0.00	0.00	0.00
Shrub	0.00	0.00	4.00	8.00	15.00
SROCK	1.00	0.00	0.00	0.00	7.00

	11/3/1982	11/4/1987	3/18/1997	4/12/2001	12/13/2003
Total	100.00	98.00	103.00	100.00	97.00

Report Parameters

SITE NAME LIKE 64090-CROOKED CREEK-F237

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Functional / Structural Groups

Report Parameters

SITE NAME LIKE 64090-CROOKED CREEK-F237

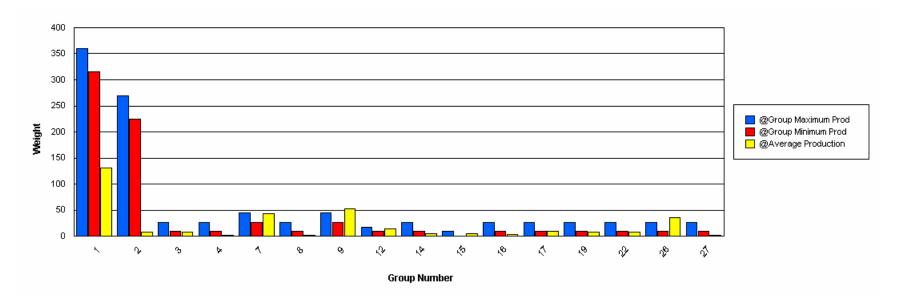
ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

MIN LBS TO GRAPH 1

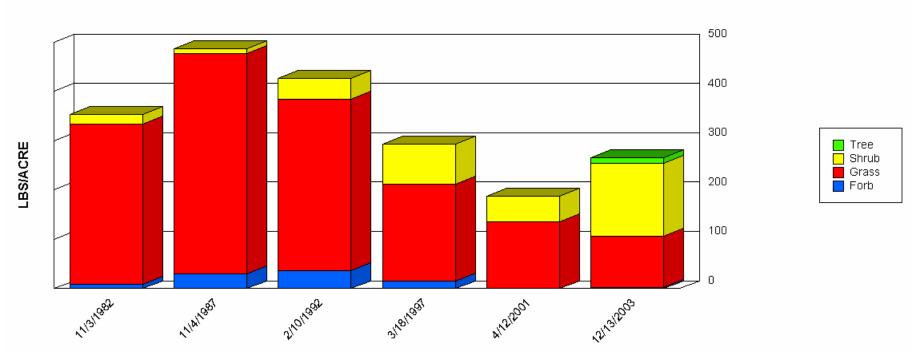
SELECTED ECOSITE 042CY007NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	HIMU2	315	360	0.00	104.88	64.06	34.77
1	Grass	SCBR2	315	360	16.61	167.00	67.11	49.94
2	Grass	BOER4	225	270	0.00	8.53	2.13	3.24
2	Grass	BOGR2	225	270	0.00	25.52	5.47	10.05
3	Grass	BOCU	9	27	0.00	32.87	8.42	12.74
4	Grass	SEMA5	9	27	0.00	10.33	2.07	4.13
6	Grass	SPAI	27	45	0.00	1.15	0.38	0.54
7	Grass	ARIST	27	45	0.00	148.52	31.01	53.32
7	Grass	SPCR	27	45	0.00	32.76	13.06	13.88
8	Grass	PAOB	9	27	0.00	6.07	2.02	2.86
9	Grass	MUAR	27	45	0.00	113.00	35.24	37.92
9	Grass	MUAR2	27	45	0.00	25.15	10.74	10.08
9	Grass	MURI	27	45	0.00	26.88	6.72	11.64
12	Grass	PAHA	9	18	0.00	32.63	13.66	11.61
14	Grass	TRMU	9	27	0.00	16.43	4.87	5.90
15	Grass	TRPI2	0	9	0.00	18.36	5.42	6.81
16	Grass	AAGG	9	27	0.00	16.00	4.00	6.93
17	Grass	ERPU8	9	27	0.00	1.72	0.34	0.69
17	Grass	LECO	9	27	0.00	4.62	1.54	2.18
17	Grass	LYPH	9	27	0.00	14.40	3.60	6.24
17	Grass	MUTO2	9	27	0.00	5.72	1.91	2.70
17	Grass	SCHED	9	27	0.00	7.44	1.49	2.98
18	Forb	SPHAE	9	27	0.00	0.73	0.27	0.33
19	Forb	CROTO	9	27	0.00	2.70	0.83	1.00
19	Forb	PENA	9	27	0.00	26.00	7.51	8.70
20	Forb	PLANT	9	27	0.00	1.50	0.50	0.71

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
22	Forb	AAFF	9	27	0.00	13.20	5.66	5.52
22	Forb	GAURA	9	27	0.00	0.30	0.10	0.14
22	Forb	PORTU	9	27	0.00	5.33	1.78	2.51
24	Forb	DEVE2	9	27	0.00	1.47	0.29	0.59
24	Forb	PPFF	9	27	0.00	0.90	0.41	0.37
26	Shrub	GUSA2	9	27	0.00	15.18	4.48	6.03
26	Shrub	OPUNT	9	27	0.00	82.00	31.23	30.02
27	Shrub	ACACI	9	27	0.00	0.95	0.32	0.45
27	Shrub	NOLIN	9	27	0.00	2.67	0.89	1.26



Production Lbs/Acre Trends

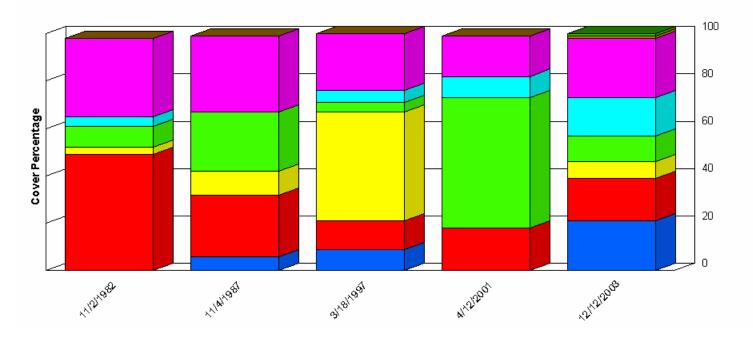


	11/3/1982	11/4/1987	2/10/1992	3/18/1997	4/12/2001	12/13/2003
Forb	8.92	29.76	36.00	16.20	0.00	2.55
Grass	324.59	447.01	348.00	195.28	136.48	104.55
Shrub	19.87	10.28	42.00	82.00	52.00	146.53
Tree	0.00	0.00	0.00	0.00	0.00	12.67
Total	353.39	487.05	426.00	293.48	188.48	266.30

Report Parameters

SITE NAME LIKE 64090-CROOKED CREEK-F237

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004



	11/2/1982	11/4/1987	3/18/1997	4/12/2001	12/12/2003
BGROUND	0.00	6.00	9.00	0.00	21.00
Forb	0.00	0.00	0.00	0.00	1.00
Grass	49.00	26.00	12.00	18.00	18.00
LITTER	3.00	10.00	46.00	0.00	7.00
LROCK	9.00	25.00	4.00	55.00	11.00
Shrub	4.00	0.00	5.00	9.00	16.00
SROCK	33.00	32.00	24.00	17.00	25.00

	11/2/1982	11/4/1987	3/18/1997	4/12/2001	12/12/2003
Tree	0.00	0.00	0.00	0.00	1.00
Total	98.00	99.00	100.00	99.00	100.00

Report Parameters

SITE NAME LIKE 64090-DARK CANYON-F233

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Functional / Structural Groups

Report Parameters

SITE NAME LIKE 64090-DARK CANYON-F233

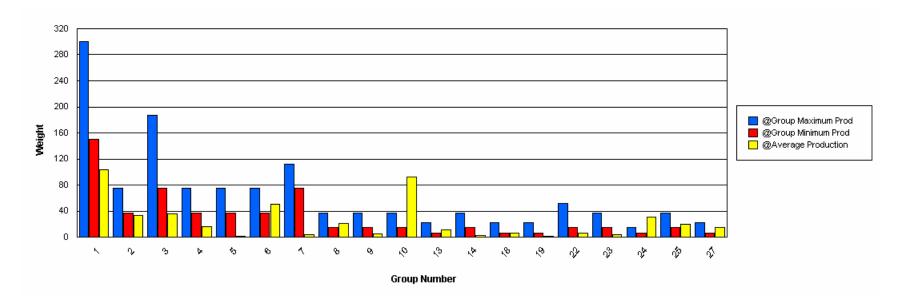
ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

MIN LBS TO GRAPH

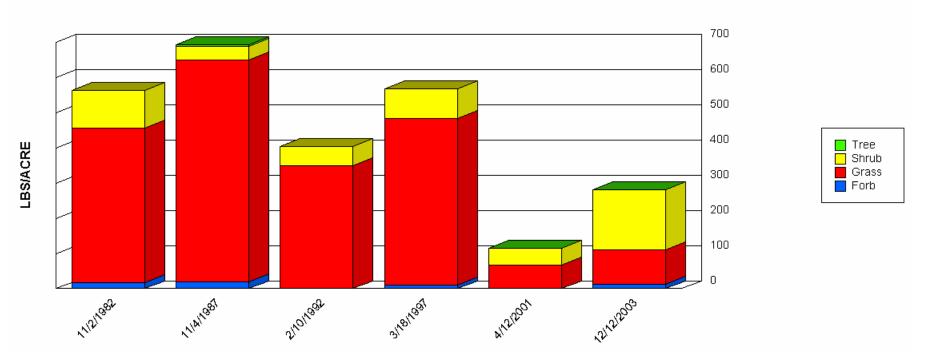
SELECTED ECOSITE 070DY158NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	150	300	6.23	205.70	103.98	63.58
2	Grass	BOCU	37	75	0.00	96.90	33.54	30.69
3	Grass	TRIDE	75	187	0.00	4.01	2.01	2.01
3	Grass	TRMU	75	187	0.00	10.54	3.58	4.50
3	Grass	TRPI2	75	187	0.00	105.30	29.84	39.03
4	Grass	BOGR2	37	75	0.00	42.34	14.97	17.99
4	Grass	SPCR	37	75	0.00	3.44	1.15	1.62
5	Grass	SCBR2	37	75	0.00	3.92	1.70	1.64
6	Grass	ARIST	37	75	0.00	178.60	50.33	62.03
7	Grass	MUSE	75	112	0.00	10.89	3.63	5.14
8	Grass	LYPH	15	37	0.00	61.20	21.16	22.34
9	Grass	PAHA	15	37	0.00	20.00	5.06	6.92
10	Grass	BOHI2	15	37	0.00	145.58	53.84	53.72
10	Grass	BOSA	15	37	0.00	23.92	8.63	8.77
10	Grass	ERPU8	15	37	0.00	0.59	0.20	0.28
10	Grass	HIMU2	15	37	0.00	82.17	27.58	38.60
10	Grass	LEDU	15	37	0.00	5.46	1.98	2.25
13	Grass	ERAGR	7	22	0.00	21.79	7.26	10.27
13	Grass	LECO	7	22	0.00	7.70	2.13	3.01
13	Grass	MUAR2	7	22	0.00	6.85	1.74	2.65
14	Forb	CROTO	15	37	0.00	3.59	1.15	1.40
14	Forb	ERIOG	15	37	0.00	4.77	1.90	1.93
16	Forb	PECTI	7	22	0.00	0.73	0.15	0.29
18	Forb	AAFF	7	22	0.00	6.60	3.16	2.72
18	Forb	EUPHO	7	22	0.00	0.37	0.07	0.15
18	Forb	HEDEO	7	22	0.00	2.93	0.59	1.17

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
18	Forb	PORTU	7	22	0.00	7.33	2.44	3.46
19	Forb	MELE2	7	22	0.00	0.65	0.13	0.26
19	Forb	PPFF	7	22	0.00	3.90	1.30	1.84
19	Forb	TRAM9	7	22	0.00	2.20	0.44	0.88
22	Shrub	NOLIN	15	52	0.00	27.72	6.34	10.80
23	Shrub	YUCCA	15	37	0.00	12.67	4.22	5.97
24	Shrub	OPIM	7	15	0.00	24.00	5.12	9.46
24	Shrub	OPUNT	7	15	0.00	54.00	25.51	20.15
25	Shrub	GUSA2	15	37	0.00	72.68	19.70	28.25
26	Shrub	DAFO	15	37	0.00	0.39	0.08	0.16
27	Shrub	ACACI	7	22	0.00	14.00	3.50	6.06
27	Tree	ACGR	7	22	0.00	4.26	1.42	2.01
27	Shrub	BRICK	7	22	0.00	40.92	10.23	17.72
27	Shrub	ERLA12	7	22	0.00	1.88	0.38	0.75
27	Shrub	SENEC2	7	22	0.00	0.24	0.08	0.11



Production Lbs/Acre Trends

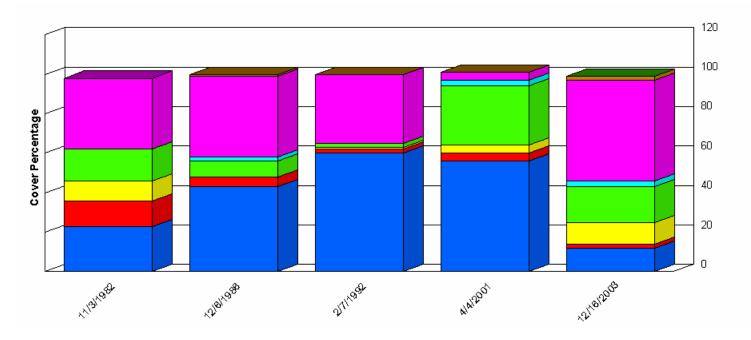


	11/2/1982	11/4/1987	2/10/1992	3/18/1997	4/12/2001	12/12/2003
Forb	16.35	19.33	0.00	9.72	0.00	12.71
Grass	439.10	630.89	350.00	474.78	67.57	97.33
Shrub	107.37	38.61	54.00	82.92	46.67	171.44
Tree	0.00	4.26	0.00	0.00	0.00	0.00
Total	562.81	693.09	404.00	567.42	114.23	281.48

Report Parameters

SITE NAME LIKE 64090-DARK CANYON-F233

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004



Shrub LROCK LITTER Grass BGROUND

	11/3/1982	12/6/1986	2/7/1992	4/4/2001	12/16/2003
BGROUND	23.00	43.00	60.00	56.00	12.00
Forb	0.00	0.00	0.00	0.00	0.00
Grass	13.00	5.00	2.00	4.00	2.00
LITTER	10.00	0.00	1.00	4.00	11.00
LROCK	16.00	8.00	2.00	30.00	18.00
Shrub	0.00	2.00	0.00	3.00	3.00
SROCK	36.00	41.00	35.00	4.00	51.00

	11/3/1982	12/6/1986	2/7/1992	4/4/2001	12/16/2003
Tree	0.00	1.00	0.00	0.00	2.00
Total	98.00	100.00	100.00	101.00	99.00

Report Parameters

SITE NAME LIKE 64090-E SAMPSON-F223

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Functional / Structural Groups

Report Parameters

SITE NAME LIKE 64090-E SAMPSON-F223

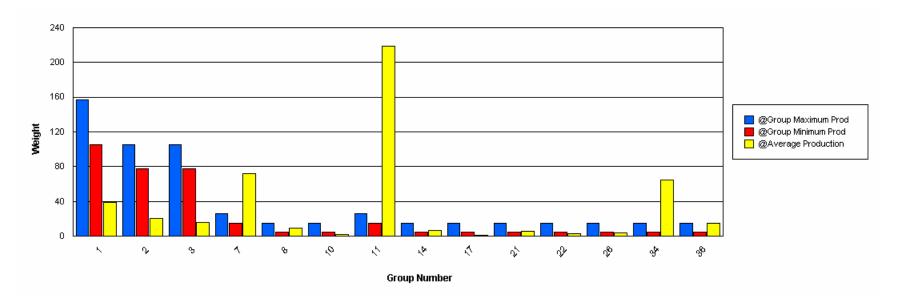
ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

MIN LBS TO GRAPH 1

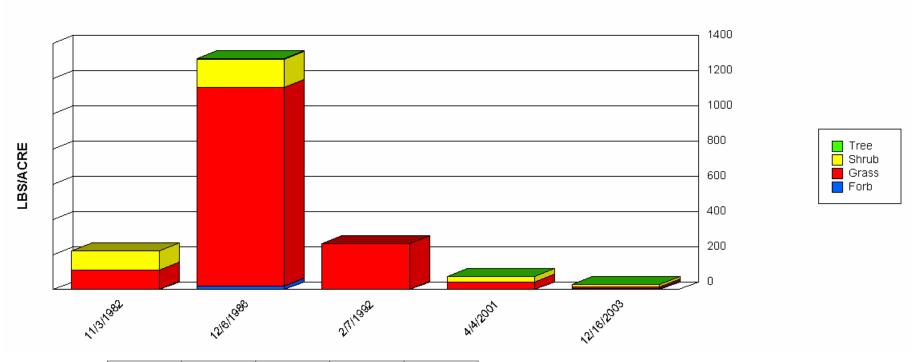
SELECTED ECOSITE 042CY025NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	105	157	0.00	157.36	38.79	59.87
2	Grass	BOCU	78	105	0.00	68.93	20.34	26.60
3	Grass	BOGR2	78	105	0.00	50.00	15.80	20.21
6	Grass	SPCR	26	52	0.00	0.55	0.14	0.24
7	Grass	TRMU	15	26	0.00	119.69	32.10	44.74
7	Grass	TRPI2	15	26	0.00	92.00	39.92	35.64
8	Grass	MUAR	5	15	0.00	28.09	9.36	13.24
10	Grass	ERPU8	5	15	0.00	7.37	2.38	2.94
11	Grass	ARIST	15	26	0.00	127.40	31.97	48.92
11	Grass	HIMU2	15	26	1.70	432.40	158.81	194.17
11	Grass	MUAR2	15	26	0.00	60.00	24.16	27.54
11	Grass	PAOB	15	26	0.00	6.67	2.22	3.14
11	Grass	SCBR2	15	26	0.00	2.77	1.22	1.15
14	Grass	LECO	5	15	0.00	2.27	0.69	0.93
14	Grass	LYPH	5	15	0.00	13.49	4.50	6.36
14	Grass	PAHA	5	15	0.00	2.93	1.45	1.23
17	Forb	SPHAE	5	15	0.00	4.40	1.47	2.07
20	Forb	CROTO	10	26	0.00	1.40	0.43	0.57
21	Forb	AAFF	5	15	0.00	17.28	5.95	8.01
21	Forb	DYPE	5	15	0.00	0.73	0.22	0.30
22	Forb	COCA2	5	15	0.00	0.73	0.18	0.32
22	Forb	ERTE13	5	15	1.52	3.00	2.26	0.74
22	Forb	LEER	5	15	0.00	1.10	0.28	0.48
25	Shrub	LADI2	5	15	0.00	3.54	0.89	1.53
26	Shrub	KRAME	5	15	0.00	17.49	4.37	7.57
34	Shrub	GUSA2	5	15	6.85	160.16	65.02	63.16

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
35	Shrub	EULA5	15	26	0.00	2.28	0.57	0.99
36	Shrub	ACACI	5	15	0.00	1.60	0.40	0.69
36	Shrub	ACCO2	5	15	0.00	14.67	7.33	7.33
36	Tree	ACGR	5	15	0.00	5.12	1.93	2.27
36	Shrub	DAFO	5	15	0.00	10.03	5.01	5.01



Production Lbs/Acre Trends

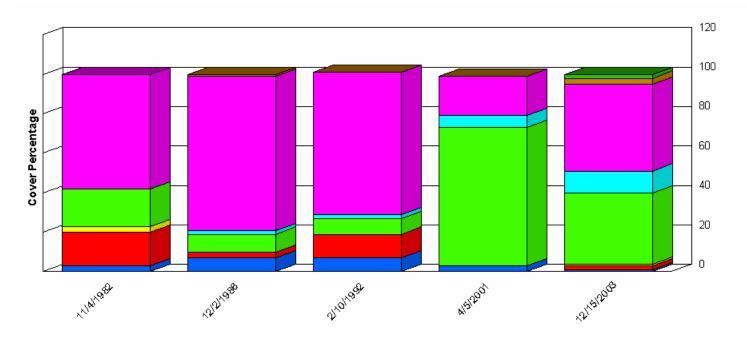


	11/3/1982	12/6/1986	2/7/1992	4/4/2001	12/16/2003
Forb	2.89	21.68	3.00	0.00	5.53
Grass	107.23	1,127.55	258.00	44.20	10.80
Shrub	109.09	160.16	0.00	31.54	12.21
Tree	0.00	5.12	0.00	0.00	0.67
Total	219.22	1,314.51	261.00	75.74	29.22

Report Parameters

SITE NAME LIKE 64090-E SAMPSON-F223

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004



		11/4/1982	12/2/1986	2/10/1992	4/5/2001	12/15/2003
	BGROUND	3.00	7.00	7.00	3.00	1.00
	Forb	0.00	0.00	0.00	0.00	2.00
	Grass	17.00	3.00	12.00	0.00	2.00
	LITTER	3.00	0.00	0.00	0.00	1.00
	LROCK	19.00	9.00	8.00	70.00	36.00
	Shrub	0.00	2.00	2.00	6.00	11.00
	SROCK	58.00	78.00	72.00	20.00	44.00

	11/4/1982	12/2/1986	2/10/1992	4/5/2001	12/15/2003
Tree	0.00	1.00	0.00	0.00	3.00
Total	100.00	100.00	101.00	99.00	100.00

SITE NAME LIKE 64090-E TWIN BUTTE-F229

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Functional / Structural Groups

Report Parameters

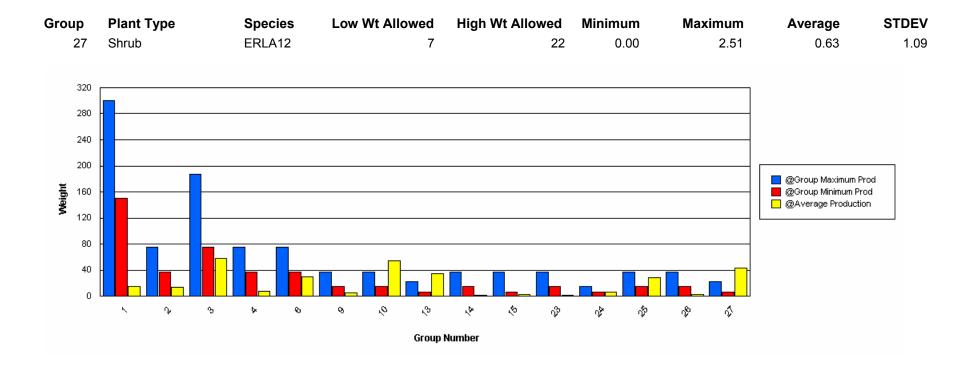
SITE NAME LIKE 64090-E TWIN BUTTE-F229

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

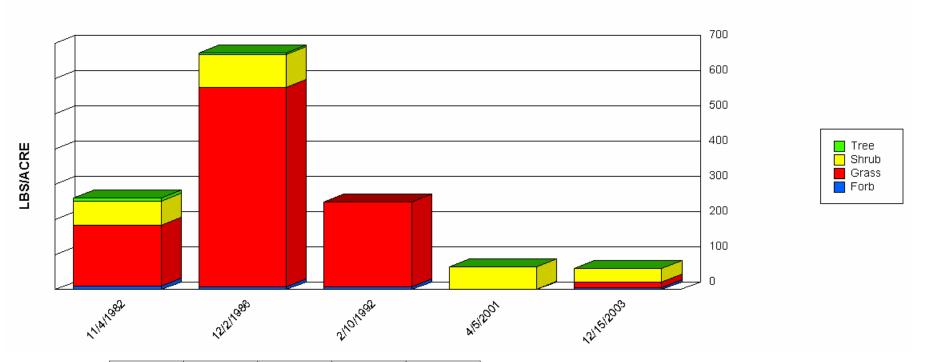
MIN LBS TO GRAPH 1

SELECTED ECOSITE 070DY158NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	150	300	0.85	34.72	14.75	15.09
2	Grass	BOCU	37	75	0.00	38.85	13.37	15.54
3	Grass	TRMU	75	187	0.00	144.76	41.43	59.94
3	Grass	TRPI2	75	187	0.00	43.74	16.19	16.35
4	Grass	BOGR2	37	75	0.00	26.67	7.26	10.14
5	Grass	MUTO2	37	75	0.00	1.17	0.29	0.51
6	Grass	ARIST	37	75	0.00	99.31	29.77	36.82
9	Grass	PAHA	15	37	0.00	22.00	5.63	8.26
10	Grass	BOHI2	15	37	0.00	164.00	53.58	64.36
10	Grass	ERPU8	15	37	0.00	1.67	0.71	0.73
13	Grass	ENDE	7	22	0.00	0.62	0.16	0.27
13	Grass	MUAR2	7	22	0.00	35.28	9.25	13.33
13	Grass	MUMO2	7	22	0.00	75.13	25.04	35.42
14	Forb	CROTO	15	37	0.00	3.27	1.31	1.39
14	Forb	ERIOG	15	37	0.00	1.92	0.55	0.80
15	Forb	SELO	7	37	0.00	6.67	2.55	2.78
18	Forb	AAFF	7	22	0.00	1.62	0.68	0.70
22	Shrub	NOMI	15	52	0.00	1.26	0.32	0.55
23	Shrub	DAWH2	15	37	0.00	1.80	0.45	0.78
23	Tree	YUEL	15	37	0.00	3.60	0.90	1.56
24	Shrub	OPUNT	7	15	0.00	20.00	6.69	9.41
25	Shrub	GUSA2	15	37	5.27	61.64	28.26	21.13
26	Shrub	DAFO	15	37	0.29	7.52	2.75	3.37
27	Shrub	ACCO2	7	22	0.00	29.33	14.67	14.67
27	Tree	ACGR	7	22	0.00	7.20	3.20	2.78
27	Shrub	BRICK	7	22	0.00	75.83	25.28	35.75



Production Lbs/Acre Trends



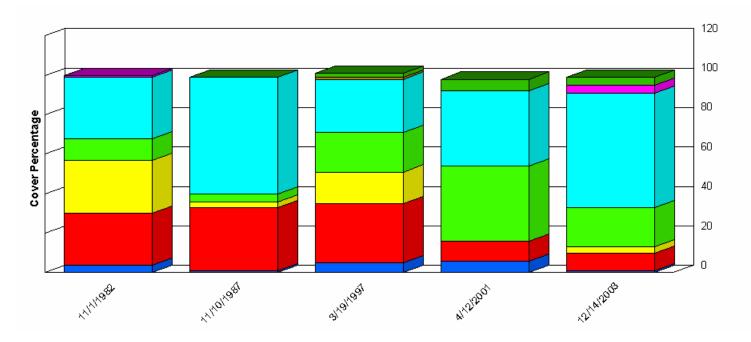
	11/4/1982	12/2/1986	2/10/1992	4/5/2001	12/15/2003
Forb	10.00	7.06	8.00	0.00	4.93
Grass	173.44	568.26	242.00	1.70	17.33
Shrub	67.21	92.71	0.00	62.12	37.64
Tree	10.80	4.27	0.00	0.00	1.33
Total	261.45	672.30	250.00	63.82	61.23

Report Parameters

SITE NAME LIKE 64090-E TWIN BUTTE-F229

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Ground Cover Trends



Shrub Forb Tree SROCK LROCK LITTER Grass	
Grass BGROUND	

	11/1/1982	11/10/1987	3/19/1997	4/12/2001	12/14/2003
BGROUND	4.00	1.00	5.00	6.00	1.00
Forb	0.00	0.00	1.00	0.00	0.00
Grass	26.00	32.00	30.00	10.00	9.00
LITTER	27.00	3.00	16.00	0.00	3.00
LROCK	11.00	4.00	20.00	38.00	20.00
Shrub	0.00	0.00	2.00	6.00	4.00
SROCK	31.00	59.00	27.00	38.00	58.00

	11/1/1982	11/10/1987	3/19/1997	4/12/2001	12/14/2003
Tree	1.00	0.00	0.00	0.00	4.00
Total	100.00	99.00	101.00	98.00	99.00

SITE NAME LIKE 64090-EAST TURNER-F232

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Functional / Structural Groups

Report Parameters

SITE NAME LIKE 64090-EAST TURNER-F232

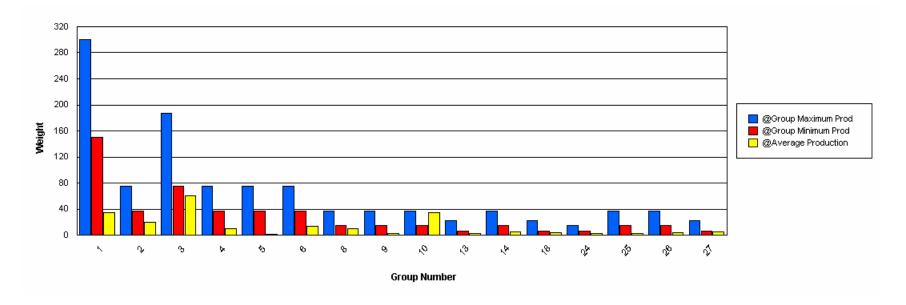
ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

MIN LBS TO GRAPH 1

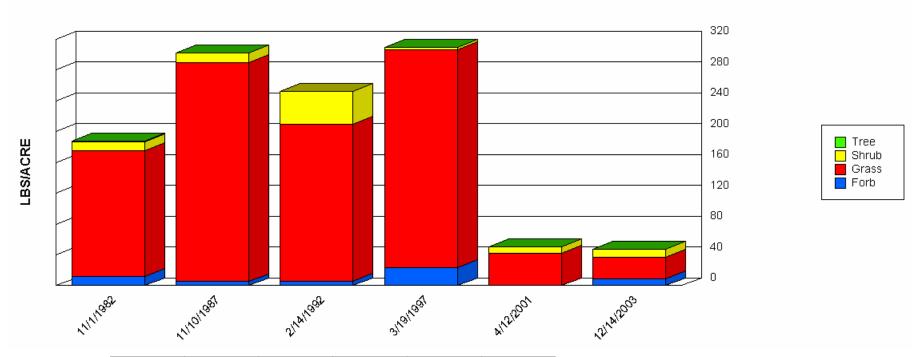
SELECTED ECOSITE 070DY158NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	150	300	6.80	57.07	34.13	17.91
2	Grass	BOCU	37	75	0.00	70.30	19.83	23.98
3	Grass	TRIDE	75	187	0.00	71.00	27.11	31.32
3	Grass	TRMU	75	187	0.00	29.76	7.78	11.20
3	Grass	TRPI2	75	187	0.00	57.20	25.85	24.08
4	Grass	BOGR2	37	75	0.00	26.00	7.15	8.95
4	Grass	SPCR	37	75	0.00	12.32	3.08	5.33
4	Grass	SPFL2	37	75	0.00	1.09	0.22	0.44
5	Grass	MUTO2	37	75	0.00	3.36	1.23	1.38
6	Grass	ARIST	37	75	0.00	41.99	14.15	13.80
8	Grass	LYPH	15	37	0.00	39.60	10.19	16.98
9	Grass	PAHA	15	37	0.00	10.00	2.80	3.68
10	Grass	BOHI2	15	37	0.00	89.32	31.23	30.99
10	Grass	ERPU8	15	37	0.00	5.67	1.94	2.21
10	Grass	LEDU	15	37	0.00	5.28	1.76	2.49
13	Grass	LECO	7	22	0.00	4.15	0.93	1.62
13	Grass	MUAR	7	22	0.00	1.15	0.23	0.46
13	Grass	MUAR2	7	22	0.00	3.68	1.23	1.73
14	Forb	CROTO	15	37	0.00	4.86	2.37	1.55
14	Forb	CRPO5	15	37	0.00	6.86	1.37	2.74
14	Forb	ERIOG	15	37	0.00	4.40	1.22	1.64
15	Forb	SENEC	7	37	0.00	2.50	0.50	1.00
16	Forb	PECTI	7	22	0.00	1.47	0.29	0.59
17	Forb	DYPE2	7	22	0.00	0.41	0.19	0.17
18	Forb	AAFF	7	22	0.00	13.64	4.21	4.89
18	Forb	TRAGI	7	22	0.00	0.30	0.10	0.14

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
19	Forb	DEVE2	7	22	0.00	0.37	0.07	0.15
19	Forb	SOEL	7	22	0.00	0.88	0.22	0.38
24	Shrub	OPUNT	7	15	0.00	5.33	2.18	1.96
25	Shrub	GUSA2	15	37	0.00	10.12	2.72	3.78
26	Shrub	DAFO	15	37	0.00	14.00	3.55	4.74
27	Shrub	ACACI	7	22	0.00	9.47	3.87	4.06
27	Shrub	ACCO2	7	22	0.00	0.67	0.33	0.33
27	Tree	ACGR	7	22	0.00	0.40	0.08	0.16
27	Shrub	ALWR	7	22	0.00	1.82	0.46	0.79



Production Lbs/Acre Trends



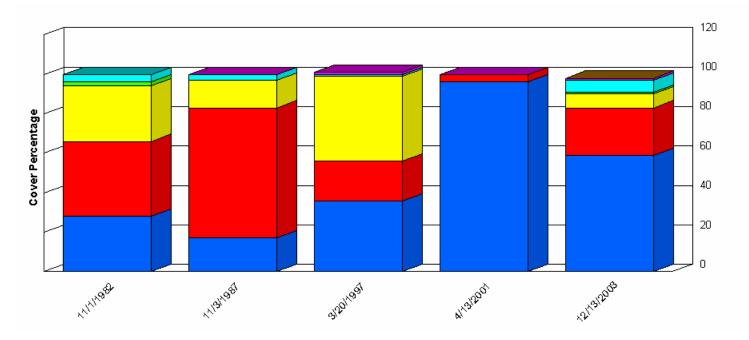
	11/1/1982	11/10/1987	2/14/1992	3/19/1997	4/12/2001	12/14/2003
Forb	12.29	5.21	6.00	23.78	0.00	8.99
Grass	163.05	284.59	204.00	282.68	41.75	28.03
Shrub	11.69	12.90	42.00	3.40	8.51	10.08
Tree	0.40	0.00	0.00	0.00	0.00	0.00
Total	187.43	302.70	252.00	309.86	50.26	47.10

Report Parameters

SITE NAME LIKE 64090-EAST TURNER-F232

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Ground Cover Trends



Forb Shrub SROCK LROCK LITTER Grass BGROUND

	11/1/1982	11/3/1987	3/20/1997	4/13/2001	12/13/2003
BGROUND	28.00	17.00	36.00	96.00	59.00
Forb	0.00	0.00	0.00	0.00	0.00
Grass	38.00	66.00	20.00	4.00	24.00
LITTER	28.00	14.00	43.00	0.00	7.00
LROCK	2.00	0.00	0.00	0.00	1.00
Shrub	0.00	0.00	1.00	0.00	1.00
SROCK	4.00	3.00	1.00	0.00	6.00

	11/1/1982	11/3/1987	3/20/1997	4/13/2001	12/13/2003
Total	100.00	100.00	101.00	100.00	98.00

SITE NAME LIKE 64090-FELIX-F239

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Functional / Structural Groups

Report Parameters

SITE NAME LIKE 64090-FELIX-F239

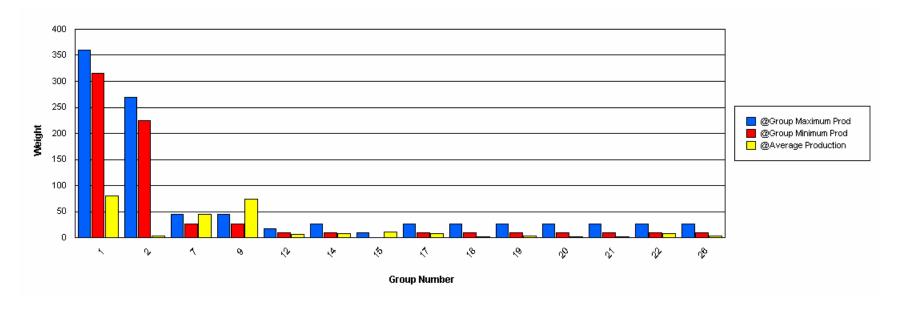
ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

MIN LBS TO GRAPH 1

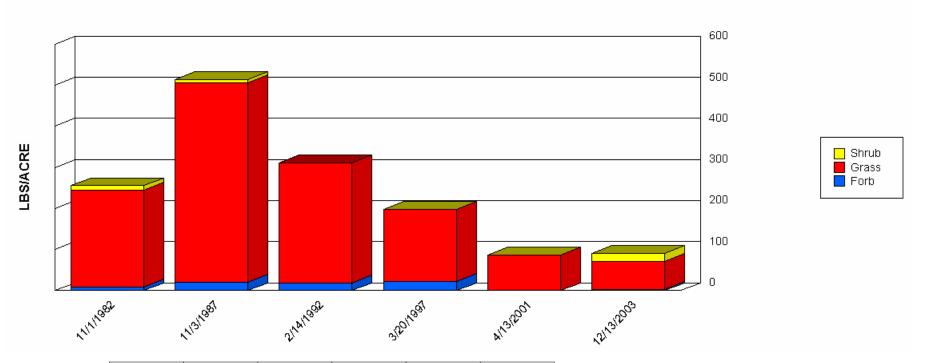
SELECTED ECOSITE 042CY007NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	HIMU2	315	360	19.14	45.00	33.90	9.52
1	Grass	SCBR2	315	360	18.39	68.40	47.10	19.48
2	Grass	BOER4	225	270	0.00	14.93	4.23	6.23
3	Grass	BOCU	9	27	0.00	1.90	0.48	0.82
7	Grass	ARIST	27	45	0.00	107.79	28.28	41.83
7	Grass	SPCR	27	45	0.00	39.56	16.14	16.94
8	Grass	PAOB	9	27	0.00	4.00	0.80	1.60
9	Grass	MUAR	27	45	0.00	9.00	2.91	3.32
9	Grass	MUAR2	27	45	0.00	183.39	71.59	67.76
12	Grass	PAHA	9	18	0.00	27.52	5.98	10.78
14	Grass	TRMU	9	27	0.00	39.10	7.56	14.22
15	Grass	TRPI2	0	9	0.00	30.16	10.46	13.47
17	Grass	ERPU8	9	27	0.00	15.30	3.43	5.97
17	Grass	LYPH	9	27	0.00	14.40	3.60	6.24
17	Grass	SCPA	9	27	0.00	3.56	1.19	1.68
17	Grass	SPFL2	9	27	0.00	2.19	0.44	0.87
18	Forb	SPHAE	9	27	0.00	5.33	1.78	2.51
19	Forb	CROTO	9	27	0.00	7.00	2.82	2.55
19	Forb	PENA	9	27	0.00	0.55	0.11	0.22
20	Forb	PLANT	9	27	0.00	4.00	1.33	1.89
21	Forb	ERTE13	9	27	0.00	6.00	1.74	2.19
22	Forb	AAFF	9	27	0.00	17.36	4.98	6.42
22	Forb	CIRSI	9	27	0.00	5.68	1.89	2.68
22	Forb	NICOT	9	27	0.00	0.57	0.19	0.27
22	Forb	PORTU	9	27	0.00	2.00	0.67	0.94
24	Forb	EUPHO	9	27	0.00	0.73	0.15	0.29

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
26	Shrub	GUSA2	9	27	0.00	10.12	3.22	4.15
26	Shrub	OPUNT	9	27	0.00	0.67	0.22	0.31



Production Lbs/Acre Trends



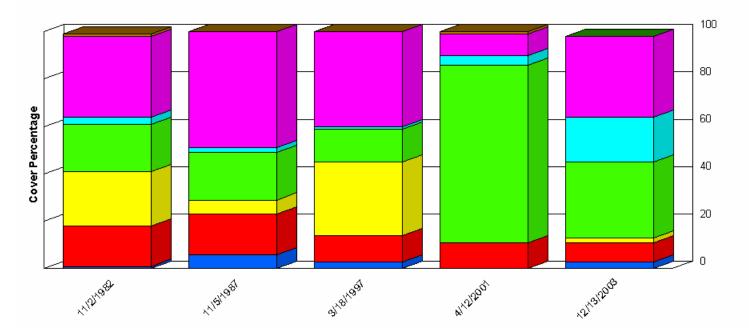
	11/1/1982	11/3/1987	2/14/1992	3/20/1997	4/13/2001	12/13/2003
Forb	8.30	21.19	19.00	21.98	0.00	2.52
Grass	237.17	485.31	293.00	176.48	86.00	68.85
Shrub	10.12	6.64	0.00	0.00	0.00	20.00
Total	255.59	513.13	312.00	198.46	86.00	91.37

Report Parameters

SITE NAME LIKE 64090-FELIX-F239

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Ground Cover Trends



Forb Tree SROCK Shrub LROCK LITTER Grass BGROUND
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	11/2/1982	11/5/1987	3/18/1997	4/12/2001	12/13/2003
BGROUND	1.00	6.00	3.00	0.00	3.00
Forb	0.00	0.00	0.00	0.00	0.00
Grass	17.00	17.00	11.00	11.00	8.00
LITTER	23.00	6.00	31.00	0.00	2.00
LROCK	20.00	20.00	14.00	75.00	32.00
Shrub	3.00	2.00	1.00	4.00	19.00
SROCK	34.00	49.00	40.00	9.00	34.00

	11/2/1982	11/5/1987	3/18/1997	4/12/2001	12/13/2003
Tree	1.00	0.00	0.00	1.00	0.00
Total	99.00	100.00	100.00	100.00	98.00

SITE NAME LIKE 64090-HORSESHOE-F234

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Functional / Structural Groups

Report Parameters

SITE NAME LIKE 64090-HORSESHOE-F234

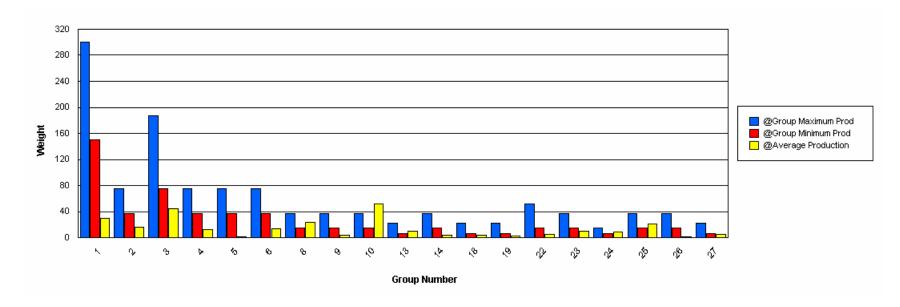
ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

MIN LBS TO GRAPH 1

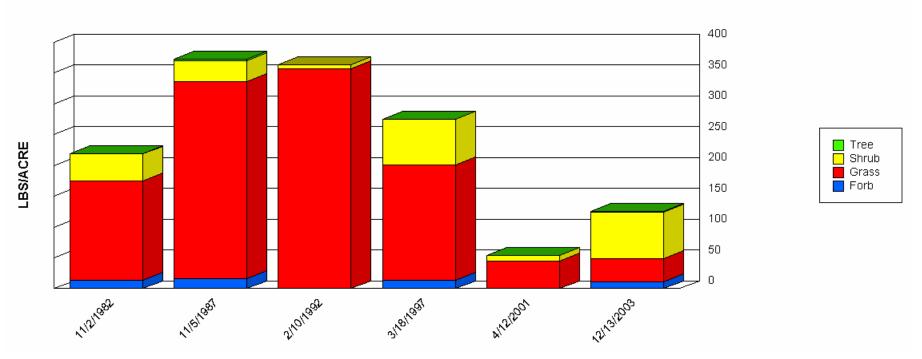
SELECTED ECOSITE 070DY158NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	150	300	13.00	56.00	29.49	17.28
2	Grass	BOCU	37	75	3.36	49.30	15.83	17.52
3	Grass	TRIDE	75	187	0.00	52.00	20.39	22.66
3	Grass	TRMU	75	187	0.00	12.04	6.42	4.71
3	Grass	TRPI2	75	187	0.00	51.30	18.02	21.31
4	Grass	BOGR2	37	75	0.00	30.00	11.96	13.54
4	Grass	SPCR	37	75	0.00	0.84	0.28	0.40
5	Grass	MUTO2	37	75	0.00	5.04	1.26	2.18
6	Grass	ARIST	37	75	0.00	25.60	13.63	9.22
8	Grass	LYPH	15	37	0.00	67.65	24.25	26.37
9	Grass	PAHA	15	37	0.00	20.00	3.85	7.26
10	Grass	BOHI2	15	37	0.00	88.00	35.78	29.26
10	Grass	ERPU8	15	37	0.00	1.70	0.34	0.68
10	Grass	LEDU	15	37	0.00	54.60	15.52	22.77
13	Grass	ENDE	7	22	0.00	14.17	2.83	5.67
13	Grass	LECO	7	22	0.00	19.51	6.04	7.90
13	Grass	MUHLE	7	22	0.00	2.83	0.94	1.34
14	Forb	CROTO	15	37	0.00	4.67	1.92	1.84
14	Forb	ERIOG	15	37	0.00	4.40	1.49	1.62
15	Forb	SENEC	7	37	0.00	1.44	0.48	0.68
16	Forb	PECTI	7	22	0.00	2.93	0.95	1.21
17	Forb	PLANT	7	22	0.00	0.30	0.10	0.14
18	Forb	AAFF	7	22	0.00	8.68	3.00	3.55
18	Forb	PORTU	7	22	0.00	2.00	0.67	0.94
18	Forb	TRAGI	7	22	0.00	0.90	0.30	0.42
19	Forb	AMBRO	7	22	0.00	6.60	1.32	2.64

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
19	Forb	CASSI	7	22	0.00	0.33	0.07	0.13
19	Forb	PPFF	7	22	0.00	2.29	1.46	1.04
19	Forb	TRAM9	7	22	0.00	0.37	0.07	0.15
22	Shrub	NOLIN	15	52	0.00	14.00	4.67	6.60
23	Shrub	YUCCA	15	37	0.00	40.00	10.00	17.32
24	Shrub	OPUNT	7	15	0.00	22.00	8.33	8.62
25	Shrub	GUSA2	15	37	0.00	63.36	21.13	24.00
26	Shrub	DAFO	15	37	0.00	2.03	0.60	0.75
26	Forb	KRAME2	15	37	0.00	0.38	0.10	0.16
26	Shrub	RHMI3	15	37	0.00	1.22	0.41	0.58
27	Shrub	ACACI	7	22	0.00	2.00	0.67	0.94
27	Tree	ACGR	7	22	0.00	2.00	0.91	0.79
27	Shrub	ALWR	7	22	0.00	12.74	3.32	5.44



Production Lbs/Acre Trends



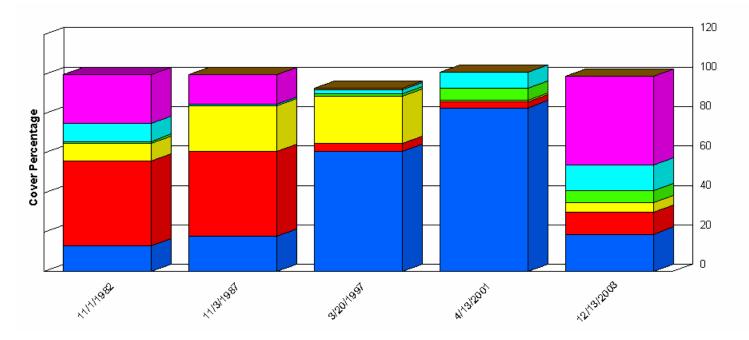
	11/2/1982	11/5/1987	2/10/1992	3/18/1997	4/12/2001	12/13/2003
Forb	13.69	16.34	0.00	13.46	0.00	10.71
Grass	160.69	319.85	357.00	187.24	44.46	38.53
Shrub	44.09	33.95	7.00	74.74	9.33	74.87
Tree	1.20	2.00	0.00	0.00	0.00	1.33
Total	219.67	372.14	364.00	275.44	53.79	125.45

Report Parameters

SITE NAME LIKE 64090-HORSESHOE-F234

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Ground Cover Trends



	11/1/1982	11/3/1987	3/20/1997	4/13/2001	12/13/2003
BGROUND	13.00	18.00	61.00	83.00	19.00
Forb	0.00	0.00	1.00	0.00	0.00
Grass	43.00	43.00	4.00	3.00	11.00
LITTER	9.00	23.00	24.00	1.00	5.00
LROCK	1.00	0.00	1.00	6.00	6.00
Shrub	9.00	1.00	2.00	8.00	13.00
SROCK	25.00	15.00	0.00	0.00	45.00

	11/1/1982	11/3/1987	3/20/1997	4/13/2001	12/13/2003
Total	100.00	100.00	93.00	101.00	99.00

SITE NAME LIKE 64090-INDIAN BLUFF-F238

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Functional / Structural Groups

Report Parameters

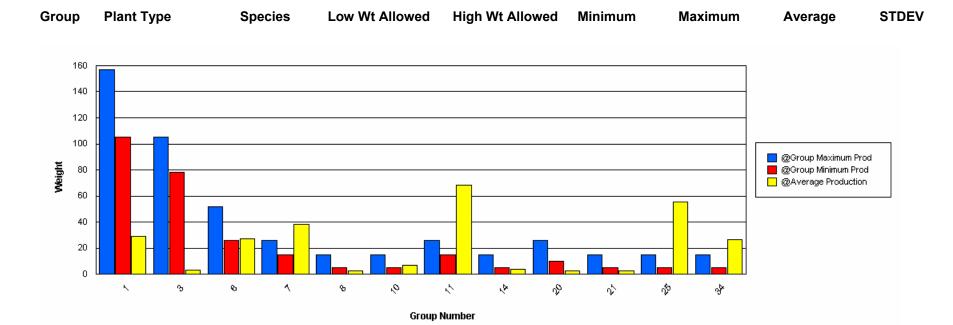
SITE NAME LIKE 64090-INDIAN BLUFF-F238

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

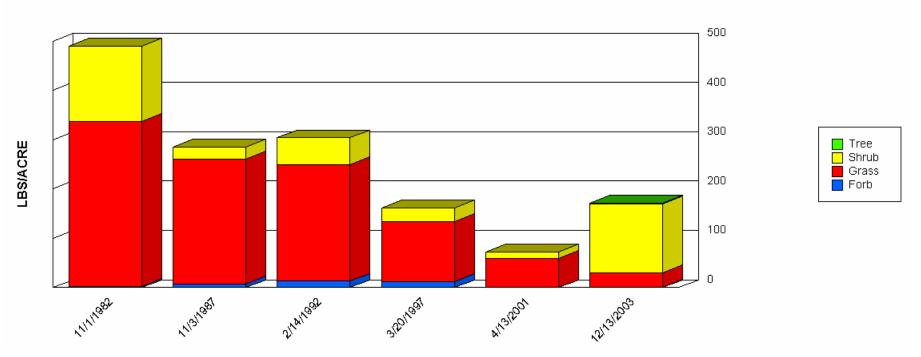
MIN LBS TO GRAPH 1

SELECTED ECOSITE 042CY025NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	105	157	2.55	48.00	28.78	14.97
3	Grass	BOGR2	78	105	0.00	18.00	3.49	6.52
6	Grass	SPCR	26	52	0.00	56.85	27.18	26.15
7	Grass	TRMU	15	26	0.00	65.10	28.02	26.57
7	Grass	TRPI2	15	26	0.00	39.42	10.27	13.91
8	Grass	MUAR	5	15	0.00	6.47	2.43	2.50
10	Grass	ERPU8	5	15	0.00	20.97	6.93	8.00
11	Grass	ARIST	15	26	0.00	20.40	7.60	8.44
11	Grass	HIMU2	15	26	5.57	27.84	15.81	7.40
11	Grass	MUAR2	15	26	0.00	66.36	29.24	25.41
11	Grass	SCBR2	15	26	5.00	36.99	15.56	10.19
14	Grass	LYPH	5	15	0.00	14.40	3.60	6.24
17	Forb	SPHAE	5	15	0.00	2.40	0.80	1.13
20	Forb	CROTO	10	26	0.00	6.00	2.74	2.13
21	Forb	AAFF	5	15	0.00	7.00	2.51	2.91
21	Forb	PECTI	5	15	0.00	0.37	0.07	0.15
21	Forb	PLANT	5	15	0.00	0.30	0.10	0.14
21	Forb	PORTU	5	15	0.00	0.30	0.10	0.14
22	Forb	PPFF	5	15	0.00	1.76	0.44	0.76
22	Forb	TRAM9	5	15	0.00	0.37	0.07	0.15
25	Shrub	LADI2	5	15	0.00	45.23	14.54	20.58
25	Shrub	LATR2	5	15	1.06	123.39	41.07	48.43
32	Shrub	OPUNT	5	15	0.00	0.29	0.06	0.12
34	Shrub	GUSA2	5	15	0.00	105.80	26.50	36.53



Production Lbs/Acre Trends



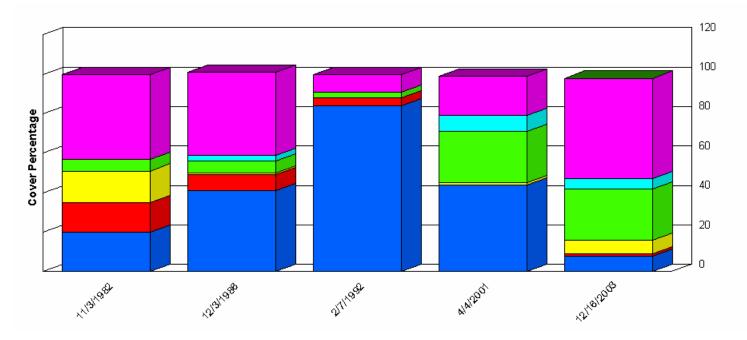
	11/1/1982	11/3/1987	2/14/1992	3/20/1997	4/13/2001	12/13/2003
Forb	2.37	6.60	13.00	11.58	0.00	0.93
Grass	335.68	253.57	237.00	122.18	59.71	28.69
Shrub	151.33	25.70	54.00	27.36	12.48	139.95
Tree	0.00	0.00	0.00	0.00	0.00	2.00
Total	489.37	285.87	304.00	161.12	72.19	171.58

Report Parameters

SITE NAME LIKE 64090-INDIAN BLUFF-F238

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Ground Cover Trends



Tree Forb SROCK Shrub
LROCK LITTER Grass
BGROUND

	11/3/1982	12/3/1986	2/7/1992	4/4/2001	12/16/2003
BGROUND	20.00	41.00	84.00	44.00	8.00
Forb	0.00	0.00	0.00	0.00	0.00
Grass	15.00	8.00	4.00	0.00	1.00
LITTER	16.00	1.00	0.00	1.00	7.00
LROCK	6.00	6.00	3.00	26.00	26.00
Shrub	0.00	3.00	0.00	8.00	5.00
SROCK	43.00	42.00	9.00	20.00	51.00

	11/3/1982	12/3/1986	2/7/1992	4/4/2001	12/16/2003
Tree	0.00	0.00	0.00	0.00	0.00
Total	100.00	101.00	100.00	99.00	98.00

SITE NAME LIKE 64090-N CAMP WELL-F227

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Functional / Structural Groups

Report Parameters

SITE NAME LIKE 64090-N CAMP WELL-F227

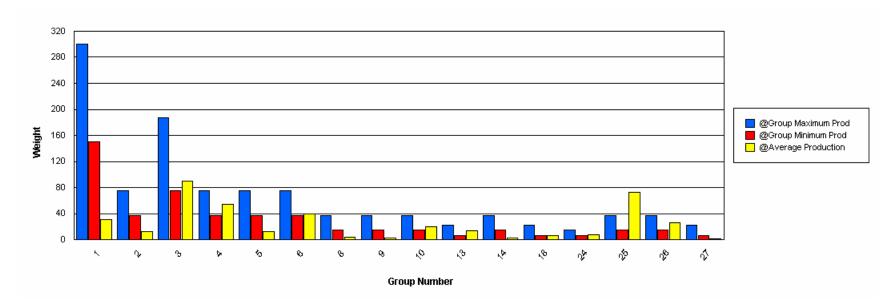
ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

MIN LBS TO GRAPH 1

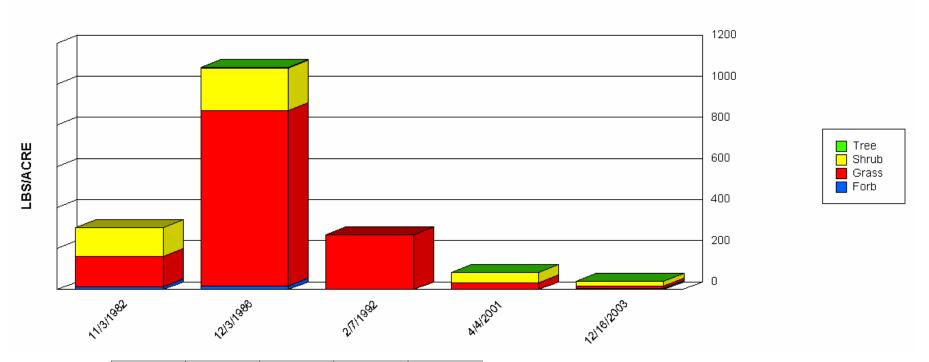
SELECTED ECOSITE 070DY158NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	150	300	1.42	96.88	30.71	35.25
2	Grass	BOCU	37	75	0.00	47.00	12.75	19.84
3	Grass	TRMU	75	187	0.00	219.33	53.23	83.68
3	Grass	TRPI2	75	187	0.00	78.00	36.69	31.64
4	Grass	BOGR2	37	75	0.00	183.33	48.97	77.73
4	Grass	SPCR	37	75	0.00	17.46	5.82	8.23
5	Grass	SCBR2	37	75	0.00	40.39	13.17	16.39
6	Grass	ARIST	37	75	0.00	107.15	39.44	41.23
8	Grass	LYPH	15	37	0.00	9.00	4.34	3.70
9	Grass	PAHA	15	37	0.00	7.63	2.62	3.02
10	Grass	BOHI2	15	37	0.00	40.00	14.29	14.99
10	Grass	ERPU8	15	37	0.00	6.00	2.33	2.86
10	Grass	HIMU2	15	37	0.00	6.27	2.83	2.86
13	Grass	MUAR2	7	22	0.00	20.91	8.78	8.00
13	Grass	PAOB	7	22	0.00	16.67	5.56	7.86
14	Forb	CROTO	15	37	0.00	4.57	1.61	1.87
14	Forb	ERIOG	15	37	0.00	3.30	1.07	1.35
15	Forb	SELO	7	37	0.00	0.44	0.15	0.21
18	Forb	AAFF	7	22	0.00	17.28	5.76	8.15
18	Forb	DYPE	7	22	0.00	0.49	0.21	0.22
18	Forb	EUPHO	7	22	0.00	1.47	0.37	0.64
18	Forb	GALIU	7	22	0.00	0.73	0.18	0.32
19	Forb	CASSI	7	22	0.00	0.33	0.08	0.14
19	Forb	HOFFM	7	22	0.00	0.29	0.07	0.13
19	Forb	LEER	7	22	0.00	2.57	0.64	1.11
22	Shrub	NOLIN	15	52	0.00	0.42	0.11	0.18

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
23	Shrub	YUCCA	15	37	0.00	0.20	0.07	0.09
24	Shrub	OPUNT	7	15	0.00	17.75	7.77	7.93
25	Shrub	GUSA2	15	37	20.16	158.33	73.09	54.61
26	Shrub	DAFO	15	37	1.16	6.27	3.71	2.55
26	Shrub	KRAME	15	37	0.00	48.10	13.67	20.06
26	Shrub	LADI2	15	37	0.00	34.61	8.65	14.99
27	Tree	ACGR	7	22	0.00	4.27	1.42	2.01



Production Lbs/Acre Trends



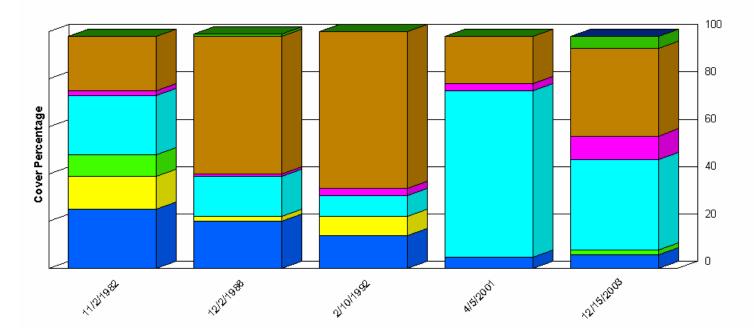
	11/3/1982	12/3/1986	2/7/1992	4/4/2001	12/16/2003
Forb	13.63	18.68	0.00	0.00	5.40
Grass	148.35	852.03	268.00	31.58	11.94
Shrub	142.14	206.63	0.00	50.67	25.32
Tree	0.00	4.27	0.00	0.00	0.00
Total	304.11	1,081.61	268.00	82.25	42.65

Report Parameters

SITE NAME LIKE 64090-N CAMP WELL-F227

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Ground Cover Trends



Herb Tree SROCK Shrub
LROCK
LITTER Grass
Forb
BGROUND

	11/2/1982	12/2/1986	2/10/1992	4/5/2001	12/15/2003
BGROUND	25.00	20.00	14.00	5.00	6.00
Forb	0.00	0.00	0.00	0.00	0.00
Grass	14.00	2.00	8.00	0.00	0.00
Herb	0.00	0.00	0.00	0.00	0.00
LITTER	9.00	0.00	0.00	0.00	2.00
LROCK	25.00	17.00	9.00	70.00	38.00
Shrub	2.00	1.00	3.00	3.00	10.00

	11/2/1982	12/2/1986	2/10/1992	4/5/2001	12/15/2003
SROCK	23.00	58.00	66.00	20.00	37.00
Tree	0.00	1.00	0.00	0.00	5.00
Total	98.00	99.00	100.00	98.00	98.00

SITE NAME LIKE 64090-S CAMP WELL-F228

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Functional / Structural Groups

Report Parameters

SITE NAME LIKE 64090-S CAMP WELL-F228

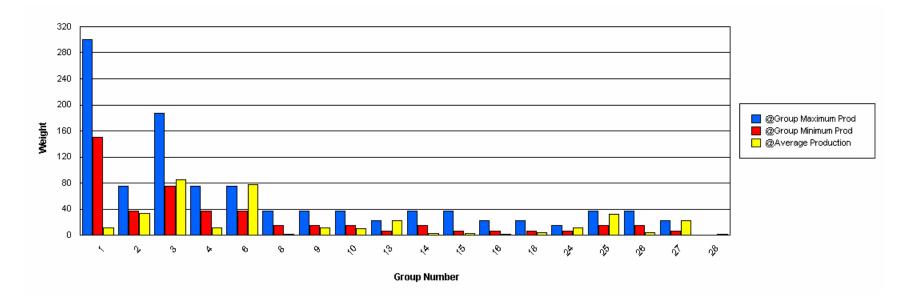
ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

MIN LBS TO GRAPH 1

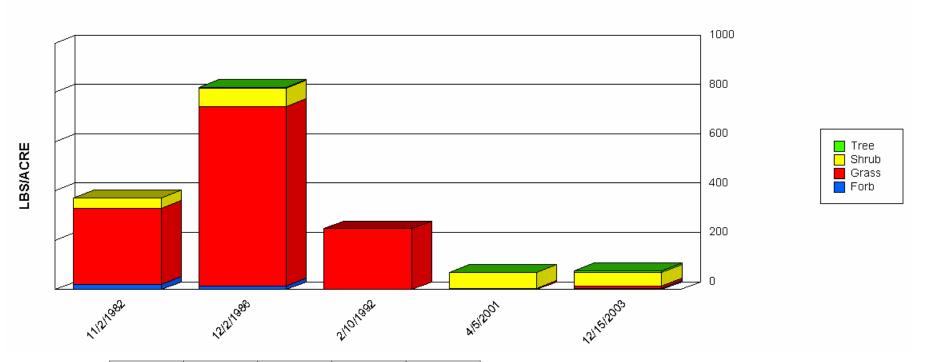
SELECTED ECOSITE 070DY158NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	150	300	0.00	28.00	11.91	11.86
2	Grass	BOCU	37	75	0.00	87.11	33.42	34.42
3	Grass	TRMU	75	187	0.00	142.25	41.42	53.74
3	Grass	TRPI2	75	187	0.00	79.38	43.09	35.89
4	Grass	BOGR2	37	75	0.00	37.33	10.70	15.47
4	Grass	SPCR	37	75	0.00	3.23	1.08	1.52
6	Grass	ARIST	37	75	0.00	294.65	77.70	110.89
8	Grass	LYPH	15	37	0.00	5.87	1.74	2.42
9	Grass	PAHA	15	37	0.00	42.00	11.45	15.74
10	Grass	ERPU8	15	37	0.00	2.64	0.88	1.24
10	Grass	HIMU2	15	37	0.00	5.07	2.43	2.43
10	Grass	LEDU	15	37	0.00	18.80	6.27	8.86
13	Grass	ENDE	7	22	0.00	0.59	0.15	0.26
13	Grass	LECO	7	22	0.00	9.41	3.14	4.43
13	Grass	MUAR2	7	22	0.00	45.82	18.78	18.95
14	Forb	CROTO	15	37	0.00	5.23	2.18	2.27
14	Forb	ERIOG	15	37	0.00	1.10	0.28	0.48
15	Forb	SELO	7	37	0.00	5.50	2.38	2.43
16	Forb	PEPA2	7	22	0.00	4.40	1.10	1.91
17	Forb	SPAN3	7	22	0.00	0.31	0.08	0.14
17	Forb	SPCO	7	22	0.00	0.31	0.08	0.14
18	Forb	AAFF	7	22	0.00	9.18	3.12	4.28
18	Forb	BOERH2	7	22	0.00	0.73	0.18	0.32
18	Forb	EUPHO	7	22	0.00	1.83	0.46	0.79
18	Forb	FROEL	7	22	0.00	0.37	0.09	0.16
19	Forb	DALEA3	7	22	0.00	1.10	0.28	0.48

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
19	Forb	TRAM9	7	22	0.00	1.83	0.46	0.79
24	Shrub	OPUNT	7	15	0.00	22.67	11.33	11.33
25	Shrub	GUSA2	15	37	0.00	70.98	32.57	25.97
26	Shrub	DAFO	15	37	0.00	3.54	1.14	1.40
26	Shrub	RHAR4	15	37	0.00	6.07	3.03	3.03
27	Shrub	ACCO2	7	22	0.00	33.33	16.67	16.67
27	Tree	ACGR	7	22	0.00	8.33	4.20	3.40
27	Shrub	BRICK	7	22	0.00	3.72	1.86	1.86
28	Shrub	PRGL2	0	0	0.00	3.67	1.22	1.73



Production Lbs/Acre Trends



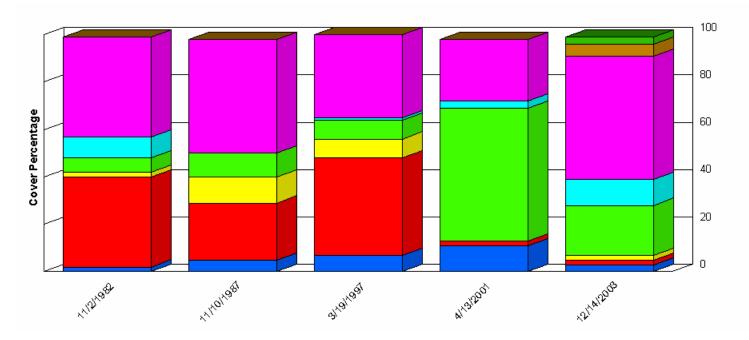
	11/2/1982	12/2/1986	2/10/1992	4/5/2001	12/15/2003
Forb	21.22	14.68	0.00	0.00	5.96
Grass	308.86	727.00	247.00	4.64	9.58
Shrub	41.72	75.08	0.00	65.79	53.80
Tree	0.00	4.27	0.00	0.00	8.33
Total	371.80	821.03	247.00	70.43	77.68

Report Parameters

SITE NAME LIKE 64090-S CAMP WELL-F228

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Ground Cover Trends



SROCK Shrub LROCK LITTER

	11/2/1982	11/10/1987	3/19/1997	4/13/2001	12/14/2003
BGROUND	2.00	5.00	7.00	11.00	3.00
Forb	0.00	0.00	0.00	0.00	3.00
Grass	38.00	24.00	41.00	2.00	2.00
LITTER	2.00	11.00	8.00	0.00	2.00
LROCK	6.00	10.00	8.00	56.00	21.00
Shrub	9.00	0.00	1.00	3.00	11.00
SROCK	42.00	48.00	35.00	26.00	52.00

	11/2/1982	11/10/1987	3/19/1997	4/13/2001	12/14/2003
Tree	0.00	0.00	0.00	0.00	5.00
Total	99.00	98.00	100.00	98.00	99.00

SITE NAME LIKE 64090-SIXTEEN-F235

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Report Parameters

SITE NAME LIKE 64090-SIXTEEN-F235

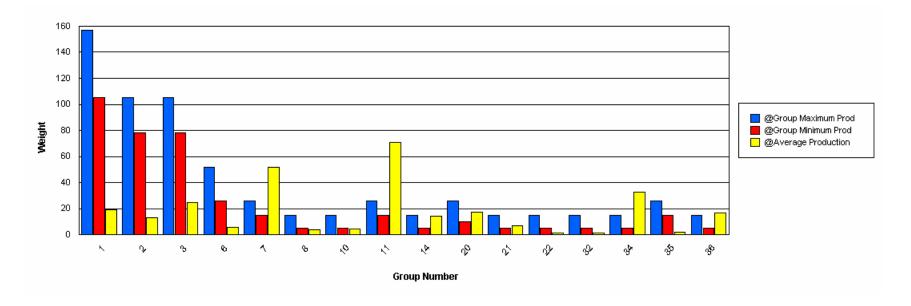
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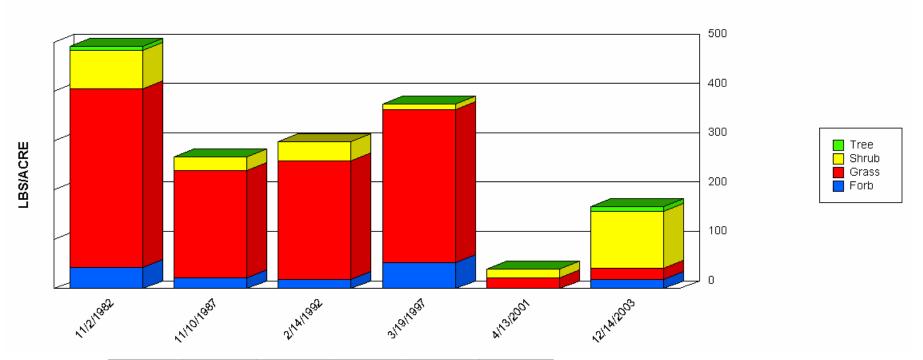
MIN LBS TO GRAPH

SELECTED ECOSITE 042CY025NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	105	157	1.70	40.80	19.34	15.94
2	Grass	BOCU	78	105	0.00	29.00	13.02	11.71
3	Grass	BOGR2	78	105	0.00	19.20	4.20	7.53
3	Grass	BOHI2	78	105	0.00	42.00	20.63	16.76
6	Grass	SPCR	26	52	0.00	14.56	5.51	6.77
7	Grass	TRIDE	15	26	0.00	7.45	3.73	3.73
7	Grass	TRMU	15	26	0.00	47.12	11.74	16.66
7	Grass	TRPI2	15	26	0.00	144.18	36.39	49.72
8	Grass	MUAR	5	15	0.00	18.48	3.93	7.29
10	Grass	ERPU8	5	15	0.00	14.00	4.34	4.73
11	Grass	ARIST	15	26	0.00	102.77	39.41	39.58
11	Grass	BOSA	15	26	0.00	8.90	2.97	4.20
11	Grass	HIMU2	15	26	0.57	22.29	10.51	8.99
11	Grass	MUAR2	15	26	0.00	32.13	10.61	10.98
11	Grass	SCBR2	15	26	0.00	22.00	7.52	9.06
14	Grass	ENDE	5	15	0.00	0.60	0.20	0.28
14	Grass	LECO	5	15	0.00	2.97	0.59	1.19
14	Grass	LEDU	5	15	0.00	2.89	0.75	1.12
14	Grass	LYPH	5	15	0.00	27.00	5.80	10.63
14	Grass	PAHA	5	15	0.00	17.21	6.83	7.81
17	Forb	SPHAE	5	15	0.00	1.20	0.39	0.50
20	Forb	CROTO	10	26	0.00	51.84	14.93	17.04
20	Forb	ERIOG	10	26	0.00	7.80	2.73	3.40
21	Forb	AAFF	5	15	0.00	4.00	2.00	1.27
21	Forb	EUPHO	5	15	0.00	4.40	0.88	1.76
21	Forb	PECTI	5	15	0.00	10.27	2.05	4.11

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
21	Forb	STEPH	5	15	0.00	6.60	1.32	2.64
21	Forb	TRAGI	5	15	0.00	1.20	0.40	0.57
22	Forb	DEVE2	5	15	0.00	2.57	0.51	1.03
22	Forb	DYPE2	5	15	0.00	0.81	0.27	0.38
22	Forb	HOGL2	5	15	0.00	0.30	0.10	0.14
22	Forb	TRAM9	5	15	0.00	3.67	0.73	1.47
23	Forb	CIRSI	0	0	0.00	1.10	0.22	0.44
32	Shrub	OPUNT	5	15	0.00	3.33	1.18	1.30
34	Shrub	GUSA2	5	15	0.00	90.24	32.46	35.44
35	Shrub	EULA5	15	26	0.00	5.80	1.93	2.73
36	Shrub	ACACI	5	15	0.00	14.00	6.00	5.93
36	Shrub	ACCO2	5	15	0.00	5.33	2.67	2.67
36	Tree	ACGR	5	15	0.00	10.00	3.52	4.38
36	Shrub	AGAVE	5	15	0.00	10.00	2.61	3.82
36	Shrub	ALWR	5	15	0.00	0.35	0.12	0.17
36	Shrub	DAFO	5	15	0.00	3.76	1.53	1.50
36	Shrub	ERLA12	5	15	0.00	1.25	0.25	0.50





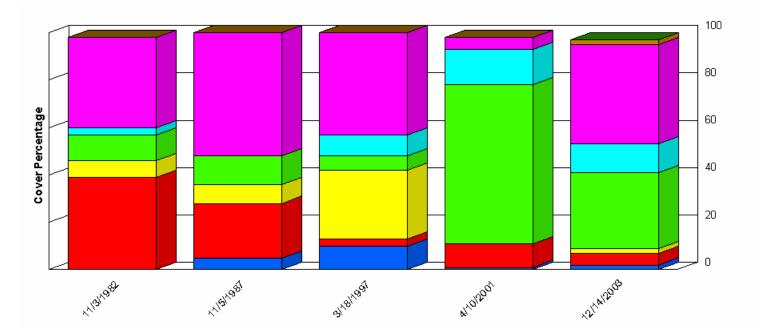
	11/2/1982	11/10/1987	2/14/1992	3/19/1997	4/13/2001	12/14/2003
Forb	43.32	21.51	19.00	53.08	0.00	18.27
Grass	362.71	217.57	240.00	309.82	22.39	23.60
Shrub	78.07	28.23	39.00	12.32	17.76	115.12
Tree	7.60	0.00	0.00	0.00	0.00	10.00
Total	491.70	267.32	298.00	375.22	40.15	166.99

Report Parameters

SITE NAME LIKE 64090-SIXTEEN-F235

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Ground Cover Trends



Forb Tree SROCK Shrub LROCK LITTER Grass
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	11/3/1982	11/5/1987	3/18/1997	4/10/2001	12/14/2003
BGROUND	0.00	5.00	10.00	1.00	2.00
Forb	0.00	0.00	0.00	0.00	0.00
Grass	39.00	23.00	3.00	10.00	5.00
LITTER	7.00	8.00	29.00	0.00	2.00
LROCK	11.00	12.00	6.00	67.00	32.00
Shrub	3.00	0.00	9.00	15.00	12.00
SROCK	38.00	52.00	43.00	5.00	42.00

	11/3/1982	11/5/1987	3/18/1997	4/10/2001	12/14/2003
Tree	0.00	0.00	0.00	0.00	2.00
Total	98.00	100.00	100.00	98.00	97.00

SITE NAME LIKE 64090-SOUTH TURNER-F236

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Report Parameters

SITE NAME LIKE 64090-SOUTH TURNER-F236

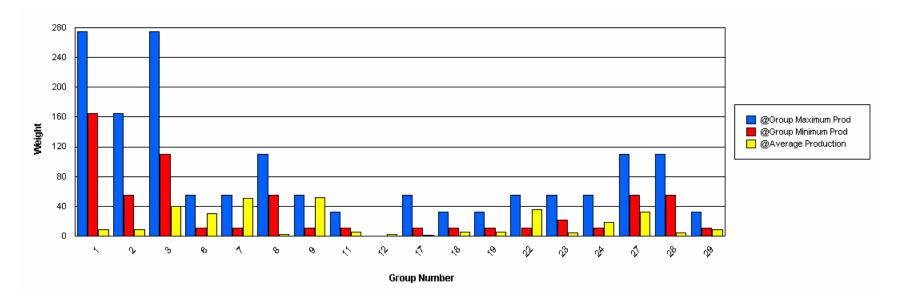
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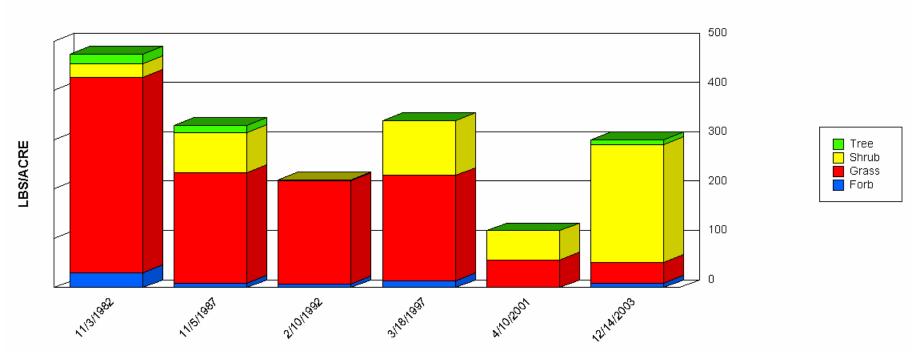
MIN LBS TO GRAPH 1

SELECTED ECOSITE 070DY151NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOCU	165	275	0.00	20.97	8.74	7.65
2	Grass	BOGR2	55	165	0.00	34.56	8.64	14.96
3	Grass	BOER4	110	275	8.50	76.00	39.72	20.24
5	Grass	MUSE	165	220	0.00	3.40	0.85	1.47
6	Grass	ARIST	11	55	0.00	48.88	30.11	17.57
7	Grass	TRMU	11	55	0.00	38.44	9.21	14.71
7	Grass	TRPI2	11	55	0.00	153.36	41.52	57.25
8	Grass	LEDU	55	110	0.00	9.10	2.72	3.76
9	Grass	BOHI2	11	55	0.00	90.00	38.09	32.99
9	Grass	LYPH	11	55	0.00	16.20	7.43	5.85
9	Grass	PAHA	11	55	0.00	22.00	5.74	8.11
9	Grass	SEMA5	11	55	0.00	2.96	0.99	1.40
11	Grass	HIMU2	11	33	0.00	4.06	2.03	2.03
11	Grass	LECO	11	33	0.00	7.19	2.86	3.50
11	Grass	MUAR2	11	33	0.00	2.11	0.42	0.84
12	Grass	ERPU8	0	0	0.00	10.00	2.27	3.88
14	Forb	PECTI	11	33	0.00	2.20	0.44	0.88
17	Forb	ERIOG	11	55	0.00	5.13	1.44	1.91
17	Forb	SENEC	11	55	0.00	0.67	0.18	0.26
18	Forb	AAFF	11	33	0.00	12.54	4.25	4.52
18	Forb	EUPHO	11	33	0.00	2.93	0.59	1.17
18	Forb	STEPH	11	33	0.00	1.47	0.29	0.59
19	Forb	CROTO	11	33	0.00	8.17	3.28	3.07
19	Forb	DEVE2	11	33	0.00	1.10	0.22	0.44
19	Forb	PPFF	11	33	0.00	2.10	0.92	0.88
19	Forb	SOEL	11	33	0.00	0.33	0.07	0.13

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
19	Forb	TRAM9	11	33	0.00	6.97	1.39	2.79
22	Shrub	NOLIN	11	55	0.00	80.00	34.17	35.15
22	Shrub	NOMI	11	55	0.00	2.24	1.12	1.12
23	Shrub	RHMI3	22	55	0.00	8.49	4.25	4.25
24	Shrub	GUSA2	11	55	0.00	72.00	18.63	27.91
27	Shrub	DAFO	55	110	0.00	13.79	3.80	4.71
27	Shrub	DALE2	55	110	7.33	10.00	8.67	1.33
27	Shrub	OPUNT	55	110	0.00	30.00	19.83	11.66
28	Shrub	MIBI3	55	110	0.00	16.00	4.50	6.69
29	Tree	ACGR	11	33	0.00	19.20	8.32	7.57
29	Shrub	ERLA12	11	33	0.00	5.33	1.07	2.13





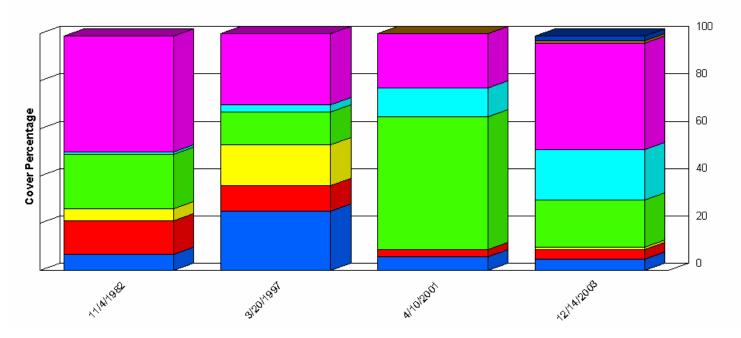
	11/3/1982	11/5/1987	2/10/1992	3/18/1997	4/10/2001	12/14/2003
Forb	30.06	9.24	8.00	13.42	0.00	8.52
Grass	396.28	224.01	209.00	214.12	56.20	43.25
Shrub	28.45	81.74	2.00	112.00	59.19	239.10
Tree	19.20	13.73	0.00	0.00	0.00	8.67
Total	473.99	328.72	219.00	339.54	115.39	299.53

Report Parameters

SITE NAME LIKE 64090-SOUTH TURNER-F236

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Ground Cover Trends



	11/4/1982	3/20/1997	4/10/2001	12/14/2003
BGROUND	7.00	25.00	6.00	5.00
Forb	0.00	0.00	0.00	0.00
Grass	14.00	11.00	3.00	4.00
Herb	0.00	0.00	0.00	2.00
LITTER	5.00	17.00	0.00	1.00
LROCK	23.00	14.00	56.00	20.00
Shrub	1.00	3.00	12.00	21.00

	11/4/1982	3/20/1997	4/10/2001	12/14/2003
SROCK	49.00	30.00	23.00	45.00
Tree	0.00	0.00	0.00	1.00
Total	99.00	100.00	100.00	99.00

SITE NAME LIKE 64090-SW TWIN BUTTE-F231

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Report Parameters

SITE NAME LIKE 64090-SW TWIN BUTTE-F231

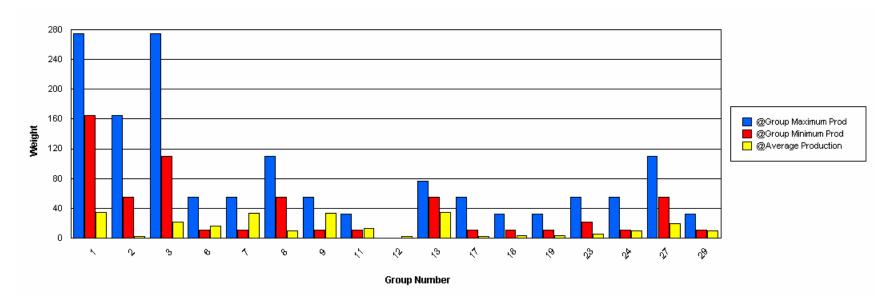
ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

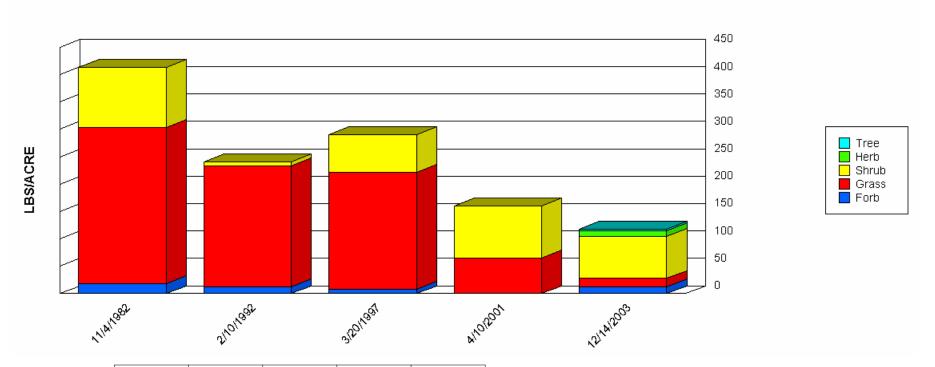
MIN LBS TO GRAPH

SELECTED ECOSITE 070DY151NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOCU	165	275	0.00	106.40	34.91	39.74
2	Grass	BOGR2	55	165	0.00	8.16	2.12	3.49
3	Grass	BOER4	110	275	1.13	47.60	21.43	15.81
6	Grass	ARIST	11	55	0.00	33.00	15.92	11.49
7	Grass	SPCR	11	55	0.00	0.55	0.14	0.24
7	Grass	TRMU	11	55	0.00	36.58	9.30	15.75
7	Grass	TRPI2	11	55	0.00	49.14	24.44	20.77
8	Grass	LEDU	55	110	0.00	39.68	9.92	17.18
9	Grass	BOHI2	11	55	0.00	55.03	14.99	20.49
9	Grass	LYPH	11	55	0.00	37.00	13.71	14.39
9	Grass	PAHA	11	55	0.00	13.00	4.55	4.88
11	Grass	HIMU2	11	33	0.00	4.06	2.03	2.03
11	Grass	LECO	11	33	0.00	1.19	0.30	0.51
11	Grass	MUAR2	11	33	0.00	8.43	3.67	3.51
11	Grass	SCBR2	11	33	2.37	17.00	6.96	5.24
12	Grass	ERPU8	0	0	0.00	6.23	2.23	2.56
13	Shrub	PAIN2	55	77	7.00	60.95	34.74	19.90
17	Forb	ERIOG	11	55	0.00	2.46	0.62	1.07
17	Forb	SELO	11	55	0.00	5.83	1.46	2.53
18	Forb	AAFF	11	33	0.00	7.44	3.36	3.40
18	Forb	DYPA	11	33	0.00	1.83	0.46	0.79
19	Forb	CASSI	11	33	0.00	0.27	0.07	0.12
19	Forb	CROTO	11	33	0.00	7.00	2.49	2.62
19	Forb	LINUM	11	33	0.00	1.64	0.41	0.71
19	Forb	TRAM9	11	33	0.00	3.28	0.82	1.42
23	Shrub	RHMI3	22	55	0.00	10.92	5.46	5.46

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
24	Shrub	GUSA2	11	55	0.00	34.50	10.21	14.26
27	Shrub	OPUNT	55	110	0.00	62.67	19.73	25.16
29	Shrub	ACACI	11	33	0.00	29.50	7.38	12.77
29	Shrub	ACCO2	11	33	0.00	4.00	2.00	2.00
29	Shrub	ALWR	11	33	0.00	1.82	0.61	0.86
29	Shrub	ERICA	11	33	0.00	1.57	0.39	0.68



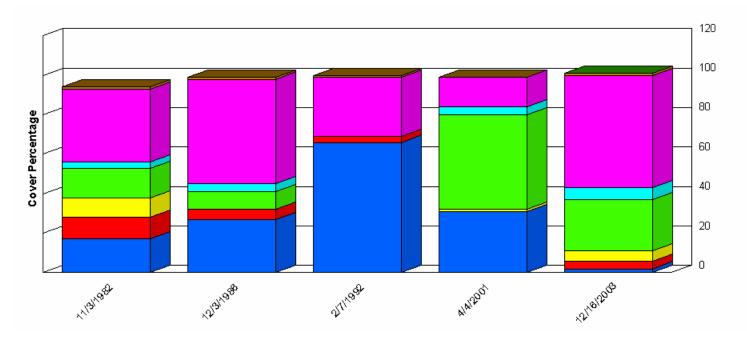


	11/4/1982	2/10/1992	3/20/1997	4/10/2001	12/14/2003
Forb	18.91	13.00	7.44	0.00	11.89
Grass	285.19	221.00	214.44	65.70	15.92
Herb	0.00	0.00	0.00	0.00	10.32
Shrub	109.69	7.00	68.74	94.87	76.28
Tree	0.00	0.00	0.00	0.00	4.00
Total	413.79	241.00	290.62	160.57	118.42

SITE NAME LIKE 64090-SW TWIN BUTTE-F231

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Ground Cover Trends



	11/3/1982	12/3/1986	2/7/1992	4/4/2001	12/16/2003
BGROUND	17.00	27.00	66.00	31.00	2.00
Forb	0.00	0.00	0.00	0.00	0.00
Grass	11.00	5.00	3.00	0.00	4.00
LITTER	10.00	0.00	0.00	1.00	5.00
LROCK	15.00	9.00	0.00	48.00	26.00
Shrub	3.00	4.00	0.00	4.00	6.00
SROCK	37.00	53.00	30.00	15.00	57.00

	11/3/1982	12/3/1986	2/7/1992	4/4/2001	12/16/2003
Tree	1.00	1.00	1.00	0.00	1.00
Total	94.00	99.00	100.00	99.00	101.00

SITE NAME LIKE 64090-W SAMPSON-F224

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Report Parameters

SITE NAME LIKE 64090-W SAMPSON-F224

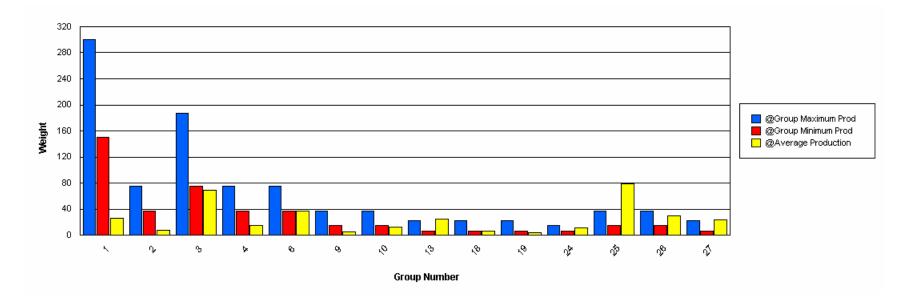
ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

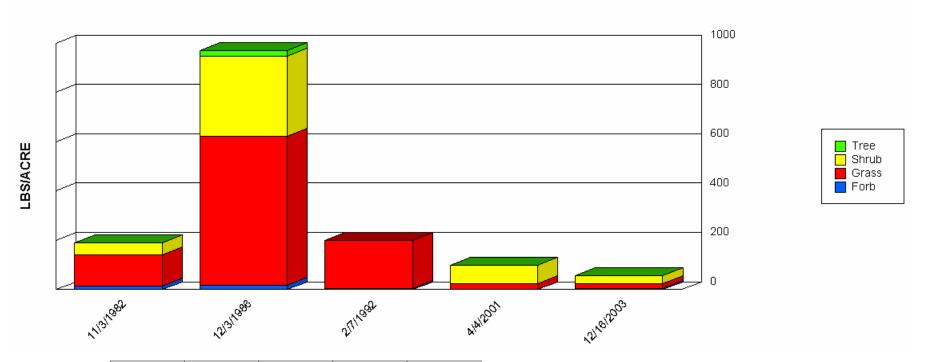
MIN LBS TO GRAPH 1

SELECTED ECOSITE 070DY158NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	BOER4	150	300	1.98	71.68	26.07	24.19
2	Grass	BOCU	37	75	0.00	28.20	7.89	11.81
3	Grass	TRMU	75	187	0.00	122.83	33.11	45.84
3	Grass	TRPI2	75	187	0.00	98.39	36.24	36.24
4	Grass	BOGR2	37	75	0.00	29.33	8.96	11.98
4	Grass	SPCR	37	75	0.00	17.46	5.82	8.23
5	Grass	SCBR2	37	75	0.00	1.95	0.49	0.84
6	Grass	ARIST	37	75	0.00	133.28	36.98	49.69
9	Grass	PAHA	15	37	0.00	12.00	5.26	4.15
10	Grass	BOHI2	15	37	0.00	26.09	6.81	11.13
10	Grass	ERPU8	15	37	0.00	24.00	5.70	9.21
10	Grass	SIHY	15	37	0.00	1.76	0.59	0.83
13	Grass	LECO	7	22	0.00	7.93	2.64	3.74
13	Grass	MUAR2	7	22	0.00	60.11	21.71	22.50
14	Forb	CROTO	15	37	0.00	1.96	0.96	0.96
15	Forb	SELO	7	37	0.00	2.42	0.81	1.14
16	Forb	PEPA2	7	22	0.00	0.37	0.09	0.16
17	Forb	SPAN3	7	22	0.00	1.25	0.31	0.54
18	Forb	AAFF	7	22	0.00	15.12	5.04	7.13
18	Forb	ABUTI	7	22	0.00	3.30	0.83	1.43
18	Forb	BOERH2	7	22	0.00	0.37	0.09	0.16
18	Forb	DALEA2	7	22	0.00	3.30	0.83	1.43
18	Forb	FROEL	7	22	0.00	0.37	0.09	0.16
19	Forb	CHCO	7	22	0.00	0.37	0.09	0.16
19	Forb	ERTE13	7	22	1.14	5.00	3.07	1.93
19	Forb	HOFFM	7	22	0.00	0.37	0.09	0.16

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
19	Forb	LEER	7	22	0.00	2.93	0.73	1.27
19	Forb	MELE2	7	22	0.00	0.73	0.18	0.32
19	Forb	PPFF	7	22	0.00	1.31	0.43	0.53
24	Shrub	OPUNT	7	15	0.00	22.00	11.00	11.00
25	Shrub	GUSA2	15	37	9.36	250.55	79.31	100.10
26	Shrub	DAFO	15	37	0.58	8.77	4.68	4.10
26	Shrub	KRAME	15	37	0.00	73.67	24.56	34.73
27	Shrub	ACCO2	7	22	0.00	34.67	17.33	17.33
27	Tree	ACGR	7	22	0.00	23.89	6.52	10.04
27	Shrub	EULA5	7	22	0.00	1.52	0.38	0.66





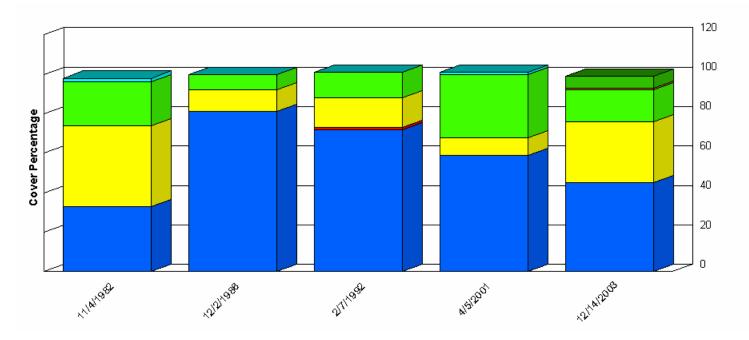
	11/3/1982	12/3/1986	2/7/1992	4/4/2001	12/16/2003
Forb	15.71	17.54	5.00	0.00	5.09
Grass	124.34	604.60	196.00	22.85	18.75
Shrub	49.36	324.22	0.00	74.92	32.30
Tree	1.20	23.89	0.00	0.00	1.00
Total	190.61	970.25	201.00	97.77	57.14

Report Parameters

SITE NAME LIKE 64090-W SAMPSON-F224

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Ground Cover Trends



	11/4/1982	12/2/1986	2/7/1992	4/5/2001	12/14/2003
BGROUND	33.00	81.00	72.00	59.00	45.00
Forb	0.00	0.00	1.00	0.00	0.00
Grass	41.00	11.00	15.00	9.00	31.00
Herb	0.00	0.00	0.00	0.00	0.00
LITTER	22.00	8.00	13.00	32.00	16.00
LROCK	0.00	0.00	0.00	0.00	1.00
Shrub	2.00	0.00	0.00	1.00	0.00

	11/4/1982	12/2/1986	2/7/1992	4/5/2001	12/14/2003
SROCK	0.00	0.00	0.00	0.00	6.00
Total	98.00	100.00	101.00	101.00	99.00

SITE NAME LIKE 64090-W TWIN BUTTE-F230

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004

Report Parameters

SITE NAME LIKE 64090-W TWIN BUTTE-F230

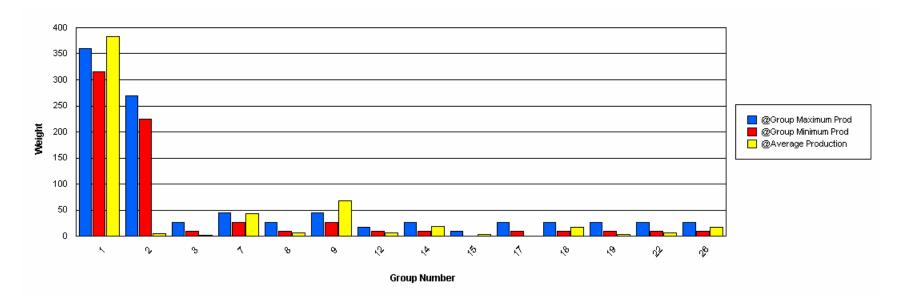
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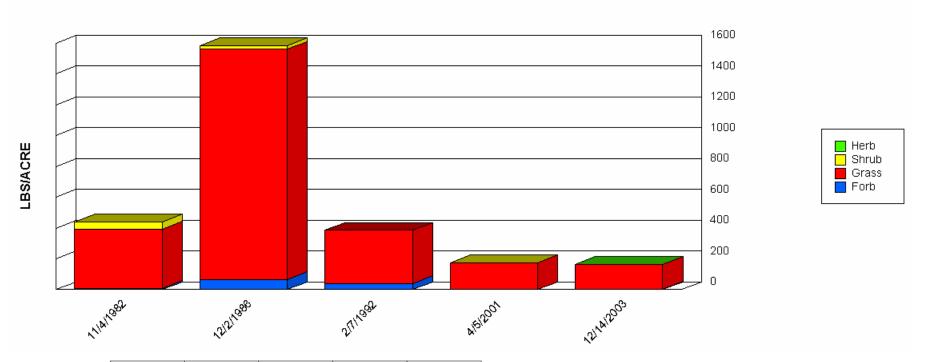
MIN LBS TO GRAPH 1

SELECTED ECOSITE 042CY007NM

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
1	Grass	HIMU2	315	360	133.73	852.00	329.32	267.01
1	Grass	SCBR2	315	360	13.65	106.79	54.02	31.49
2	Grass	BOER4	225	270	0.00	16.00	5.52	7.41
2	Grass	BOGR2	225	270	0.00	0.91	0.23	0.39
3	Grass	BOCU	9	27	0.00	4.20	1.37	1.72
7	Grass	ARIST	27	45	0.00	124.80	29.84	47.81
7	Grass	SPCR	27	45	0.00	49.79	13.54	21.01
8	Grass	PAOB	9	27	0.00	20.00	7.00	8.19
9	Grass	MUAR	27	45	0.00	51.00	12.63	19.47
9	Grass	MUAR2	27	45	0.00	196.65	51.95	83.59
9	Grass	MURE	27	45	0.00	8.88	3.76	3.88
12	Grass	PAHA	9	18	0.00	18.17	6.39	7.39
14	Grass	TRMU	9	27	0.00	57.65	19.22	27.18
15	Grass	TRPI2	0	9	0.00	12.42	3.11	5.38
17	Grass	CHLOR	9	27	0.00	1.76	0.44	0.76
17	Grass	ERPU8	9	27	0.00	1.21	0.40	0.57
17	Grass	SCPA	9	27	0.00	1.17	0.29	0.51
18	Forb	SPAN3	9	27	0.00	0.63	0.16	0.27
18	Forb	SPCO	9	27	0.00	0.55	0.14	0.24
18	Forb	SPHAE	9	27	0.00	52.38	17.46	24.69
19	Forb	CROTO	9	27	0.00	0.65	0.28	0.29
19	Forb	PENA	9	27	0.00	7.56	2.44	3.09
21	Forb	HOFFM	9	27	0.00	0.37	0.09	0.16
22	Forb	AAFF	9	27	0.00	20.00	6.62	8.17
22	Forb	COCO4	9	27	0.00	0.37	0.09	0.16
23	Forb	AMPS	9	27	0.00	1.05	0.26	0.46

Group	Plant Type	Species	Low Wt Allowed	High Wt Allowed	Minimum	Maximum	Average	STDEV
25	Shrub	YUCCA	9	27	0.00	0.33	0.11	0.16
26	Shrub	GUSA2	9	27	0.00	44.16	16.37	18.25
26	Shrub	OPUNT	9	27	0.00	2.20	0.58	0.93
27	Shrub	HAPLO2	9	27	0.00	0.37	0.09	0.16
28	Shrub	PRGL2	0	0	0.00	2.00	0.87	0.84





	11/4/1982	12/2/1986	2/7/1992	4/5/2001	12/14/2003
Forb	5.81	66.42	37.00	0.00	3.73
Grass	388.65	1,494.08	348.00	173.32	160.95
Herb	0.00	0.00	0.00	0.00	0.48
Shrub	46.73	23.77	0.00	0.00	1.14
Total	441.19	1,584.27	385.00	173.32	166.30

Report Parameters

SITE NAME LIKE 64090-W TWIN BUTTE-F230

ON/AFTER 10/01/1982 ON/BEFORE 09/30/2004